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Ontario Geological Survey
Open File Report 6144

Temagami Area Lake Sediment Geochemical Survey, Northeastern Ontario

2004

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Ontario

ONTARIO GEOLOGICAL SURVEY

Open File Report 6144

Temagami Area Lake Sediment Geochemical Survey, Northeastern Ontario

by

P.A. Takats and R.D. Dyer

2004

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Miscellaneous Release—Data 137

Lake Sediment and Water Quality Data for the Temagami Area, Northeastern Ontario; by P.A. Takats and R.D. Dyer. Lake sediment geochemical and lake water quality (limnological) data, including quality control data, collected from a survey of 2763 sites in the Temagami area are being released in conjunction with Open File Report 6144. Data are available as ASCII (*.txt*) and Microsoft® Excel (*.xls*) file formats on one CD-ROM.

This CD-ROM is available separately from the report.

Abstract

Fieldwork for a lake sediment and water geochemical survey of the Temagami area, situated in the Temagami Lake area, was carried out during July and August, 2001. This survey was instigated under the auspices of Operation Treasure Hunt (OTH), a 3-year program of geological, geochemical and geophysical investigations of Ontario. Lake sediment samples and water quality parameters were collected at 2763 lake sites. Preliminary interpretation of the survey data shows the presence of at least 29 anomalous areas or locations. Anomalous results are found for the following elements: Ag, Co, Cu, Mo, Ni, Pd, Pt and Zn. The coincidence of many of these anomalies with areas of known mineral occurrences and mineralization supports the use of lake sediment geochemistry as a viable sampling method for mineral exploration in the area. This survey has identified several potential new exploration target areas for platinum group element and base metal mineralization. Digital geochemical data for this survey has been released separately from this report as Miscellaneous Release—Data 137 (MRD 137).

Temagami Area Lake Sediment Geochemical Survey, Northeastern Ontario

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Ontario Geological Survey

Open File Report 6144
2004

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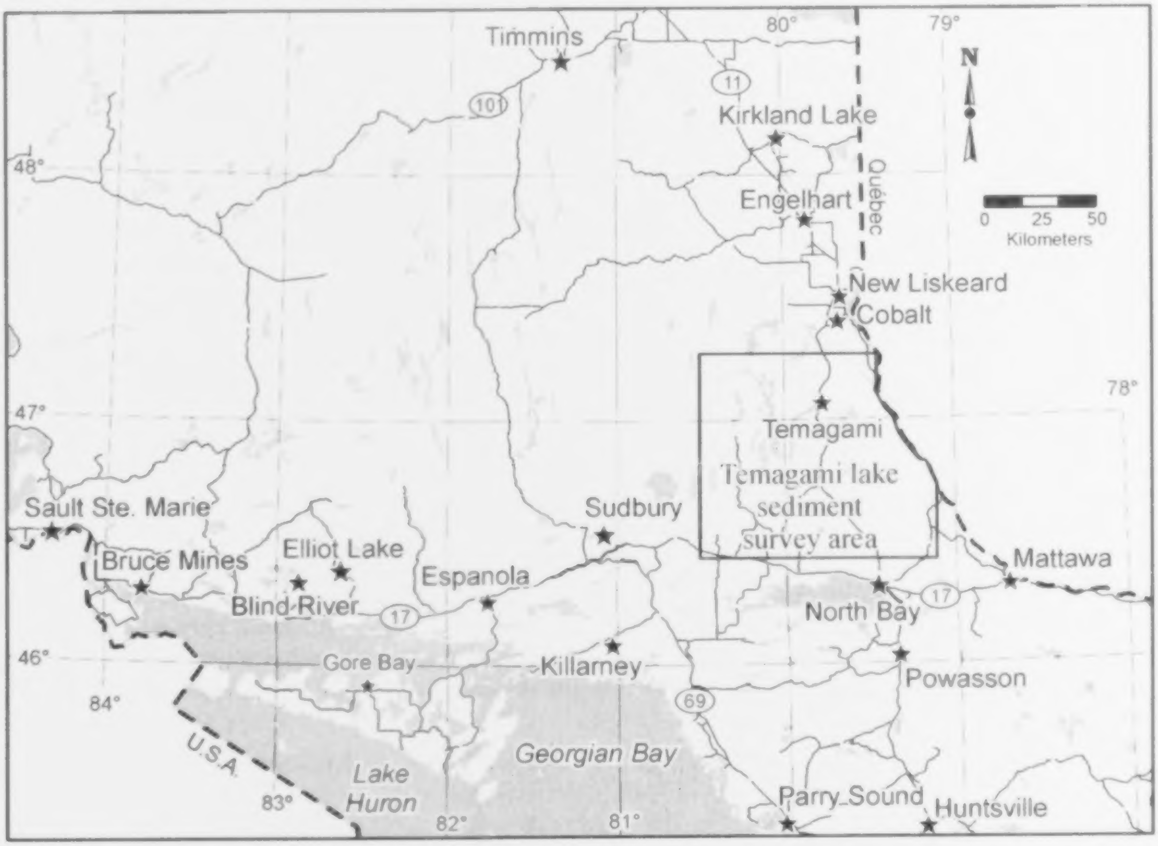
Introduction

Operation Treasure Hunt (OTH) was a 3-year program of geological, geochemical and geophysical investigations of Ontario covering areas of high mineral potential as well as areas traditionally considered to have unknown mineral potential. The type of geoscientific survey, locations and areal extent followed recommendations received from the technical subcommittee of the Ontario Geological Survey Advisory Board. Two major components of the OTH program were surficial geochemical/indicator mineral surveys and airborne geophysical surveys. This report describes the results of a lake sediment geochemical survey covering the Temagami area in northeastern Ontario.

The lake sediment sampling was carried out from July 8 to August 20, 2001, by Aquatic Sciences Inc., of St. Catharines, Ontario, under contract to the Ontario Geological Survey (OGS). This report and accompanying data release encompass the Temagami area (Figure 1). The Municipality of Temagami, located in the north-central part of the survey area, lies approximately 96 km north of North Bay and 32 km south of the town of Cobalt. The survey is bound by longitudes 80°30' N to 79°00' N and latitudes 46°15' W to 47°15' W. The survey area covers 8900 km^2 and is represented by the National Topographic System (NTS) 1:50 000 scale map sheets 31 L/11 (Temiscaming), 31 L/12 (Marten Lake), 31 L/13 (Ingall Lake), 31 L/14 (Ottertail Creek), 31 M/3 (Fabre), 31 M/4 (Temagami), 41 I/8 (Verner), 41 I/9 (Glen Afton), 41 I/16 (Lake Temagami) and 41 P/1 (Obabika Lake).



Timmins
80°
79°
N
101
11
Kirkland Lake
48°
Engelhart
Québec
0 25 50
Kilometers
New Liskeard
Cobalt
78°
47°
Temagami
Temagami lake sediment survey area
Sault Ste. Marie
Sudbury
Bruce Mines
Elliot Lake
Espanola
Mattawa
Blind River
17
North Bay
17
46°
Gore Bay
Killarney
Powasson
84°
69
U.S.A.
Georgian Bay
Lake Huron
83°
82°
81°
Parry Sound
Huntsville

Figure 1. Location map of the Temagami lake sediment survey area

During this study 2763 lake sites were visited, representing a sampling density of 1 sample per 3.2 km^2. A total of 2441 lake sediment samples were collected, prepared for analysis and submitted to several laboratories for the determination of more than 50 major, minor and trace elements, including Au, Pt and Pd. Limnological (water quality) parameters were also collected at 2763 lake sites. The data described in this report are also being released in digital format as Miscellaneous Release—Data 137 (MRD 137) (available separately from the report).

Lake water samples were collected within the Temagami survey area (in the same sampling period as the adjoining Sudbury survey area: Dyer, Takats and Felix 2004) on behalf of Laurentian University. The unique environmental circumstances of the Sudbury–Temagami area and the nature of urbanization and industrialization warranted the additional sampling. Therefore, almost 3400 water samples were collected between the 2 survey areas. Only the Temagami area results are published and interpreted in this report.

Geology

BEDROCK GEOLOGY

The Temagami survey area straddles the intersection of 3 Precambrian tectonic provinces: the Archean Superior Province; the early Proterozoic Southern Province that overlies the Superior; and the Mesoproterozoic Grenville Province that abuts the southeast section of the Southern Province (Thurston 1991).

A window of Archean granite-greenstone terrane, the Temagami Greenstone Belt (TGB), lies in the north-central section of the survey area within the Cobalt Embayment (Figure 2). It is a northeast-trending belt of metavolcanic-metasedimentary rock that has been folded along the axis of the Lake Tetapaga Syncline. It has been intruded by several major granitoid bodies, commonly massive to faintly foliated, medium-grained quartz monzonite (Bennett 1978; Fyon and Crocket 1986). Two major volcanic cyclic sequences separated by iron formation have been identified in the TGB (Fyon and Crocket 1986) where the dominantly mafic volcanic complex overlies a more felsic one. Investigation of mineralization potential (platinum group elements (PGE)) in these mafic-ultramafic intrusions by Vaillancourt et al. (2003) have revealed sulphur-saturated tholeiitic affinities with moderate to good mineralization potential.

Iron formations associated with the TGB are of mainly Algoma-style (oxide facies mostly to the west of the survey area) with subsidiary silicate (banded), carbonate and sulphide facies (dominating in the north and east) that weave through pockets of the mafic to intermediate and intermediate to felsic intrusive rocks (Meyn 1977; Bennett 1978). The intrusions are synvolcanic with sills of tholeiitic affinity (Fyon and Crocket 1986). Although surface exposure of the iron formation over the study area is minimal, airborne and ground magnetic data indicate that the iron formation extends below Huronian and metasedimentary rocks (OGS 1999, 2003b). Attempts at mining the small bands of iron formation scattered throughout the study area, such as those in Scholes and Afton townships, were mostly unsuccessful because they were considered too small to be economic (Meyn 1977). However, good surface exposure and mineable strike length resulted in the creation of 4 pits within the now closed Sherman Mine (Strathy Township, west of the Municipality of Temagami and surrounding Lake Tetapaga). Anomalous gold and copper values occur in the iron formation, which trends northeast within the Net Lake–Vermillion Lake zone of deformation (Fyon and Crocket 1986).

Rocks of the Southern Province are found within the Cobalt Embayment, a down-dropped crustal-scale block that infilled with sediments in Paleoproterozoic time to form the Huronian Supergroup

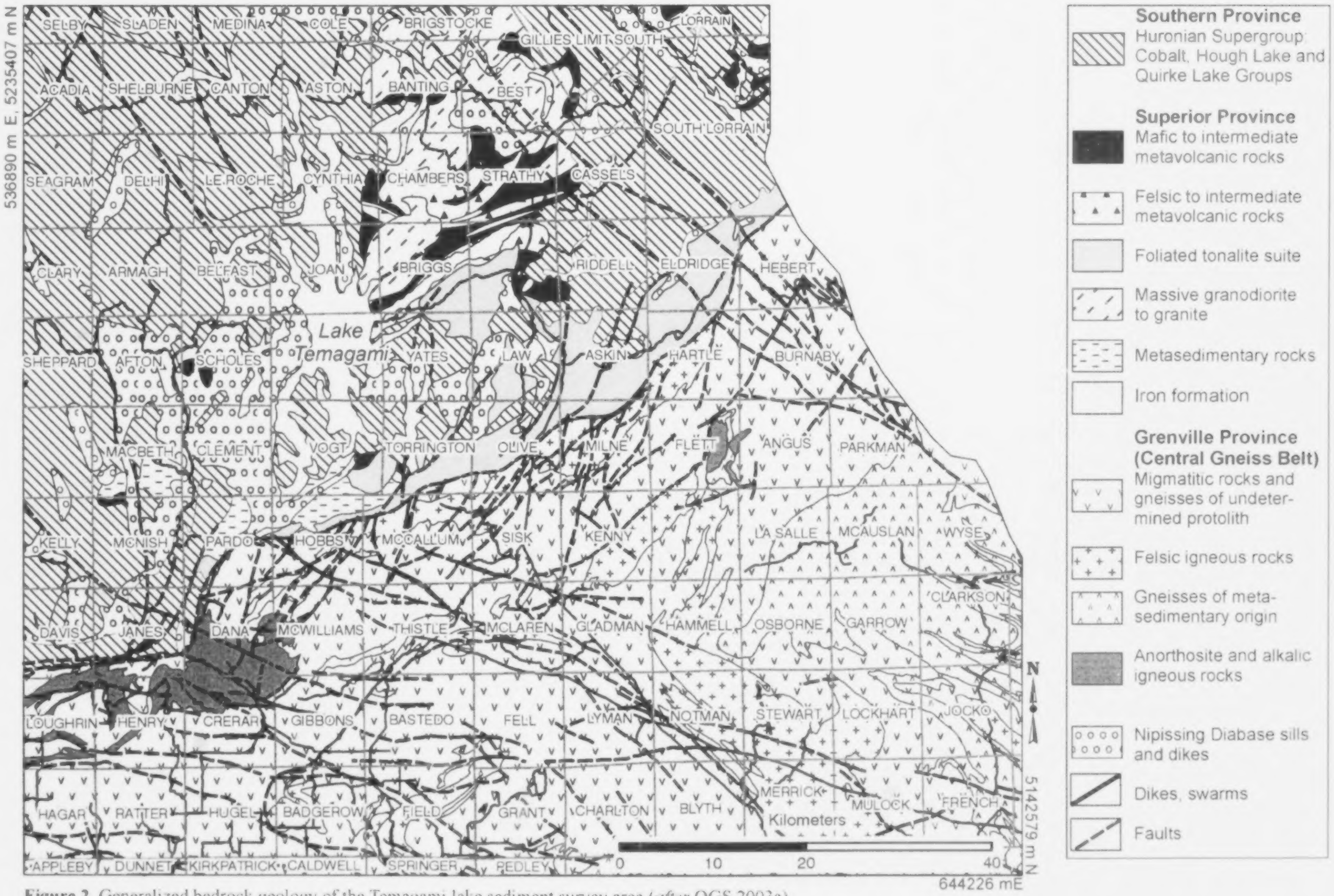

536890 m E, 5235407 m N
SELBY
SLADEN
MEDINA
COLE
BRIGSTOCKE
GILLIES LIMIT SOUTH
LORRAIN
ACADIA
SHELBURNE
CANTON
ASTON
BANTING
BEST
SOUTH LORRAIN
SEAGRAM
DELHI
LE ROCHE
CYNTHIA
CHAMBERS
STRATHY
CASSELS
CLARY
ARMAGH
BELFAST
JOAN
BRIGGS
RIDDELL
ELDRIDGE
HEBERT
SHEPPARD
AFTON
SCHOLES
Lake Temagami
YATES
LAW
ASKIN
HARTLE
BURNABY
MACBETH
CLEMENT
VOGT
TORRINGTON
OLIVE
MILNE
FLETT
ANGUS
PARKMAN
KELLY
MCNISH
PARDO
HOBBS
MCCALLUM
SISK
KENNY
LA SALLE
MCAUSLAN
WYSE
CLARKSON
DAVIS
JANES
DANA
MCWILLIAMS
THISTLE
MCLAREN
GLADMAN
HAMMELL
OSBORNE
GARROW
LOUGHRIN
HENRY
CRERAR
GIBBONS
BASTEDO
FELL
LYMAN
NOTMAN
STEWART
LOCKHART
JOCKO
HAGAR
RATTER
HUGEL
BADGEROW
FIELD
GRANT
CHARLTON
BLYTH
MERRICK
MULOCK
FRENCH
APPLEBY
DUNNET
KIRKPATRICK
CALDWELL
SPRINGER
PEDLEY
Kilometers
0
10
20
40
N
5142579 m N
644226 mE
Southern Province
Huronian Supergroup: Cobalt, Hough Lake and Quirke Lake Groups
Superior Province
Mafic to intermediate metavolcanic rocks
Felsic to intermediate metavolcanic rocks
Foliated tonalite suite
Massive granodiorite to granite
Metasedimentary rocks
Iron formation
Grenville Province (Central Gneiss Belt)
Migmatitic rocks and gneisses of undetermined protolith
Felsic igneous rocks
Gneisses of metasedimentary origin
Anorthosite and alkalic igneous rocks
Nipissing Diabase sills and dikes
Dikes, swarms
Faults

Figure 2. Generalized bedrock geology of the Temagami lake sediment survey area (*after* OGS 2003a)

(Jackson and Fyon 1991). The Huronian Supergroup is subdivided, from oldest to youngest, into the Elliot Lake, Hough Lake, Quirke Lake and Cobalt groups. This series represents an Early Proterozoic assemblage of sedimentary (cycles of conglomerate, siltstone and wacke, and arenite) and volcanic rocks (found only in the Elliot Group) deposited between 2450 Ma and 2219 Ma that rests nonconformably on Archean basement (Bennett, Dressler and Robertson 1991). Two of the formations are widespread in the study area: the Gowganda and Lorrain formations (in ascending order) of the Cobalt Group. However, a small exposure of the uppermost division of the Hough Lake Group, the Mississagi Formation, lies just north of the River Valley Intrusion (extending across Clement, Pardo, Janes and Davis townships) and consists mainly of moderately well-sorted, medium- to coarse-grained subarkose to arkose commonly with thin beds of chert-pebble and quartz-pebble conglomerate (Bennett, Dressler and Robertson 1991). Also, a small mappable unit of the Bruce Formation of the Quirke Lake Group is found in the northeast, straddling the Montreal River (Lorrain and South Lorrain townships). This formation consists of polymictic conglomerate and pebbly wacke, and locally intercalated arkose, wacke and siltstone (Bennett, Dressler and Robertson 1991).

The Gowganda Formation reaches a thickness of 700 m in the Temagami study area and comprises diverse sequences of clast- and matrix-supported conglomerate, pebbly wacke, wacke, siltstone, mudstone and arenite. Further subdivision of this formation is made based on grain size: the lower Coleman Member is conglomeratic; and the upper Firstbrook Member is a finer-grained silty wacke and mudstone unit (Bennett, Dressler and Robertson 1991). The Gowganda Formation is the dominant component of the Huronian Supergroup west and southwest of the TGB.

The Lorrain Formation conformably overlies the Gowganda Formation, and is the most extensive unit of the Huronian Supergroup exposed in the northeast (Montreal River area). The Lorrain Formation is subdivided compositionally into 3 units: a basal feldspathic arenite; a middle less feldspathic arenite and conglomerate; and an upper, feldspar impoverished, arenite to quartz arenite (Rice 1991). Jaspilite clasts were described within the units of arenite in the middle member of the formation as well as hematitic sandstone in the uppermost member (Debicki 1990). The rocks of the hematitic sandstone member are red close to the contacts with the diabase dikes, indicating elevated concentrations of iron in the Lorrain Formation compared to the adjacent Gowganda Formation. Airborne magnetic data also distinguishes between the 2 formations: magnetic highs occur over the Lorrain Formation surrounded by magnetic lows associated with the Gowganda Formation. The paleoplacer gold potential of the Lorrain Formation in the Cobalt Plain was found to be low (Debicki 1990; Rice 1991) and any mineralization was determined to be due to structural controls. The strata has been little affected by deformation except by normal faults and large open folds. The metamorphic grade within the area ranges from sub- to low-greenschist facies (Bennett, Dressler and Robertson 1991).

Nipissing Diabase mafic intrusive rocks in the Temagami survey area were emplaced 2200 Ma, typically forming dikes, sills or conical sheets in the Huronian Supergroup formations. The Nipissing Diabase is a medium-grained, massive, dark grey or greenish grey rock with a gabbroic or subophitic texture (Bennett 1978). Within the Superior and Southern provinces, the diabase is imprinted with a lower greenschist regional metamorphism (Meyn 1977; Bennett 1978). South of the Grenville Province, the Nipissing Diabase extends to within 2 to 3 km of the Grenville Front (Easton 2003) and is imprinted with the amphibolite-grade metamorphism of the Grenvillian Orogeny (*circa* 1100 Ma).

Mineralization associated with the Nipissing Diabase intrusions in the Temagami area consists mainly of quartz-carbonate vein deposits of silver, cobalt and nickel. The ore minerals include native metals, arsenides and sulpharsenides. Sulphides are present in only minor amounts. This is in contrast to the Sudbury area intrusions which are distinguished by copper-nickel sulphides. The Sudbury mineralization occurs as disseminations and massive pods in the diabase and in associated quartz-carbonate veins (Card and Pattison 1973).

Southeast of the Temagami Greenstone Belt, the rocks of the Southern Province are in fault contact with high grade metamorphic rocks of the Grenville Province, a complex orogenic belt approximately 1100 million years old (Easton 1992). The contact between the 2 provinces, known as the Grenville Front Tectonic Zone (GFTZ), consist of deformed and metamorphosed rocks of the Superior and Southern provinces up to several kilometres wide (Easton 1992). To the south of the GFTZ, the Grenville Province is subdivided into 2 major divisions: the Central Gneiss Belt (CGB) and the Central Metasedimentary Belt (CMB). The study area comprises the GFTZ and the northwestern portion of the adjacent CGB. Trending northeast, parallel to the Grenville Front, the rocks of the CGB consist of mainly upper amphibolite and local granulate-facies, quartzofeldspathic gneisses of igneous origin with subordinate paragneiss. The CGB is further subdivided into distinctive lithotectonic terranes: Tomiko Terrane, Tilden Lake Domain, and Nepewassi Domain (Easton 1992).

The terranes of the CGB are characterized by various episodes of plutonism and metamorphism resulting in felsic rocks of mostly granitic and monzonitic composition: the country rocks are typically migmatitic. A major feature to the southwest of the Grenville Front is the River Valley Intrusion of the East Bull Lake intrusive suite. This pluton is dominated by gabbronorite to gabbroic anorthosite composition and was emplaced between 2491 and 2475 Ma. Platinum group metals (PGM), copper and nickel sulphide mineralization were discovered in Dana, Cerar, Loughrin and Henry townships (Easton 2003). Potential for PGM-Cu-Ni mineralization is currently being pursued along the northern contact of the intrusion (Pacific North West Capital Corporation 2003). The River Valley Intrusion is also host to past and current producing dimension stone quarries for black granite and crushed stone (Easton 2003).

Structurally, the TGB consists of east to northeast-striking, steeply dipping faults and shear zones. Common to all major shear zones are their extensive width, carbonatization (generally ankerite) and an association with felsic metavolcanics which may be related to the main period of folding (Bennett 1978). These local shear zones (e.g., Lake Temagami, Link Lake) are hypothesized to provide the structural controls on the mineralization that occurs in the TGB (Bennett 1978).

Faults within the Cobalt Embayment are related to the development of the basin and are north and north-northwest striking normal faults with an apparent sinistral component of displacement. These faults are part of a central Superior Province-wide fault set (Jackson and Fyon 1991). Mafic intrusive rocks (Sudbury Swarm) cut through as northwest-trending diabase rocks and are the youngest rocks in the northeastern Temagami area that weather readily along joints and fractures (Bennett 1978).

An extensive northwest-striking fracture system is highlighted by the continuous northwest-trending diabase dikes of the Sudbury Swarm and the younger Grenville Swarm in the Grenville Province. The major fault systems, Latchford, Montreal River, Cross Lake and the Timiskaming fault systems (Roed 1979), are crossed by the shearing and faulting associated with the southwest trending Grenville Front Tectonic Zone. Many of these northwest-trending fractures intersect the strike of the main lithological units of the TGB metavolcanic belt at a relative high angle (Bennett 1978). The numerous faults and other bedrock structures of the area control much of the existing drainage pattern and create a rugged bedrock landscape of moderate to high relief (Gartner 1980a).

The best known mineralization in the survey area is the silver-cobalt carbonate veins of the Timiskaming silver belt which extends from the town of Cobalt to Silver Centre in South Lorrain Township. South Lorrain is known as one of the outlying camps of the Timiskaming silver belt (McIlwaine 1970). Production began in 1909 with the opening of the Wettlaufer Mine (Wettlaufer Lorrain Silver Mines Limited). Silver occurs in the native state in carbonate veins and vein systems.

Throughout the silver area, these vein systems have a very close spatial relationship to the Nipissing Diabase. Silver production in South Lorrain comes mainly from the first 100 m of metavolcanics overlying the diabase. Little ore is associated with the lower contact of the diabase with metvolcanics (McIlwaine 1970).

QUATERNARY GEOLOGY AND TOPOGRAPHY

The Temagami survey area straddles the boundary between 2 major physiographic regions, the Cobalt Plain in the north and the Laurentian Highlands in the south. It lies within the Great Lakes drainage basin. The many lakes of the area drain either towards the Ottawa River or to the St. Lawrence River via Lake Nipissing. Topographic relief in the areas ranges from rugged rock plateaus and abrupt scarps in the extreme northwest and southeast corners, to rolling and undulating towards the Lake Nipissing watershed. Relief ranges from 163 m asl to a maximum of 588 m asl and is controlled by structural lineations that usually form topographic lows (Veillette 1996). These structurally controlled depressions, caused by faults systems and shear zones, tend to be partially filled with Holocene material and lakes (Boissonneau 1968; Gartner 1980b; Barnett 1992; Veillette 1996).

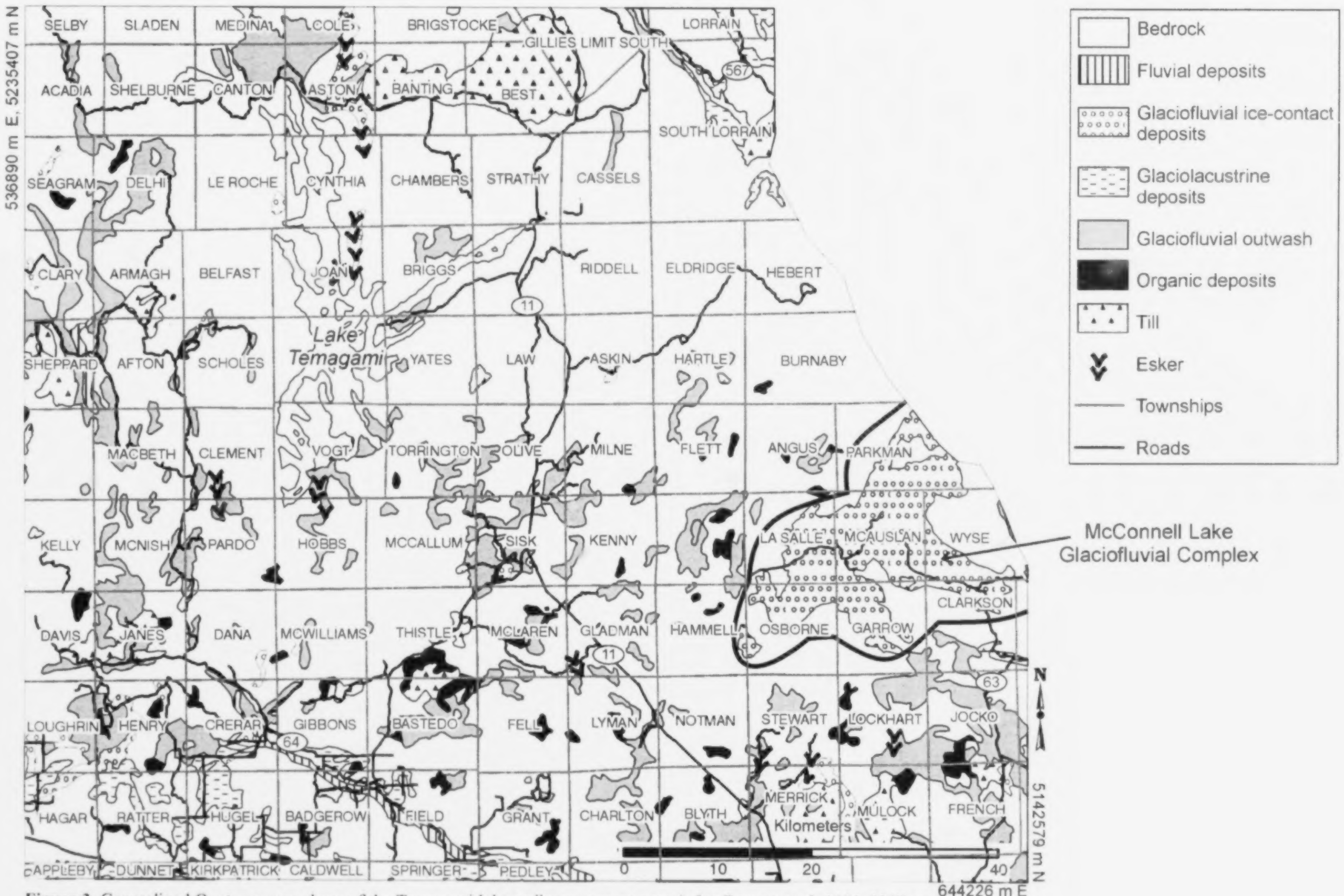
The Temagami area is typically bedrock-dominated; however, locally several areas are characterized by substantial thicknesses of nonglacial and glacial surficial material (Figure 3). Nonglacial materials include shallow organic deposits commonly situated in depressions between bedrock highs and fluvial deposits (Gartner 1980a). The major organic deposits overlie sandy outwash in a discontinuous belt that trends east-northeast through the central part of the map area. The most extensive organic deposit within the Temagami area is found to the east of and adjacent to the McConnell Lake Moraine (Lasalle and Osborne townships; not shown on Figure 3). Fluvial material occurs in a swath trending southeast from Crerar to Field townships and as a smaller complex to the west-central part of the survey area, in Sheppard Township.

The major glacial features of the area include extensive till cover in Best Township; glaciofluvial kames in the area of Marten River; glaciofluvial moraines and kames in the Red Cedar Lake area; and the till and outwash sand deposits of the McConnell Lake glaciofluvial complex (*see* Figure 3; Boissonneau 1968; Gartner 1980a).

Based upon interpretation of glacial striae in the bedrock of the area, 3 distinct ice movements of the Laurentide ice sheet (Late Wisconsinan) were identified. The oldest movement trends southwest (230-270°), followed by a south-southwest (180-220°) and the most recent, a south-southeast (130-170°) flow which cuts all former ice-flow directions in this survey area. The most recent set of striations represents the last glacial event of the area and is associated with the Matheson Till (Veillette 1986). Therefore, the provenance of surficial material in the Temagami survey area is likely to include areas to the north and northeast.

The McConnell Lake glaciofluvial complex covers most of Parkman and McAuslan townships and parts of Wyse, Garrow, Osborne and Lasalle townships. It forms the southern portion of the larger Harricana–McConnell Lake Glaciofluvial Complex, and is completely contained in this survey area (*see* Figure 3). The overall Harricana–McConnell complex extends from James Bay (Québec), crosses the Ottawa River perpendicularly just north of Témiskaming (Québec) into the study area, and winds southward just east of Lake Nipissing towards Lake Simcoe. Veillette (1986) has interpreted the large-scale complex as a retreating feature marking the zone of separation of a large ice mass and not the convergence of 2 glaciers as originally hypothesized.

The McConnell Lake glaciofluvial complex, referred to as the McConnell Lake Moraine from here onward, consists of thick, stratified glaciofluvial sediments in a northeast-trending band 22 km in length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MEDINA
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BRIGSTOCKE
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LORRAIN
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SHELBURNE
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ASTON
BANTING
BEST
SOUTH LORRAIN
SEAGRAM
DELHI
LE ROCHE
CYNTHIA
CHAMBERS
STRATHY
CASSELS
CLARY
ARMAGH
BELFAST
JOAN
BRIGGS
RIDDELL
ELDRIDGE
HEBERT
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HARTLE
BURNABY
MACBETH
CLEMENT
VOGT
TORRINGTON
OLIVE
MILNE
FLETT
ANGUS
PARKMAN
KELLY
MCNISH
PARDO
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KENNY
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MCAUSLAN
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CRERAR
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BASTEDO
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LYMAN
NOTMAN
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LOCKHART
JOCKO
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MERRICK
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CHARLTON
BLYTH
Kilometers
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FRENCH
APPLEBY
DUNNET
KIRKPATRICK
CALDWELL
SPRINGER
PEDLEY
0
10
20
40
N
5142579 m N
644226 m E
Bedrock
Fluvial deposits
Glaciofluvial ice-contact deposits
Glaciolacustrine deposits
Glaciofluvial outwash
Organic deposits
Till
Esker
Townships
Roads
McConnell Lake Glaciofluvial Complex

Figure 3. Generalized Quaternary geology of the Temagami lake sediment survey area (*after* Barnett et al. 1991; Veillette 1996).

and 10 km wide (*see* Figure 3). The ice-contact sediments comprise 5 to 50 m of sand, gravel and boulders in the morainal till, and 5 to 25 m of sand and gravel within eskers. The moraine also contains rare Paleozoic erratics from the Timiskaming Paleozoic outlier present on the north shores of Lake Timiskaming located outside the survey area (Veillette 1996). The southwestern extent of these deposits is unknown because of the overlying organic deposits. Kettle depressions and large shallow lakes are dispersed in the area (Gartner 1980a).

High concentrations of several metals in the fine fraction (<0.002 mm) were found in the Temagami area. Elevated levels of Fe, Mn, Mo, U and Zn were found in the tills of the McConnell Lake Moraine and anomalous concentrations of Cu (up to 480 ppm), Co (up to 57 ppm), Ni (up to 170 ppm), Pb (up to 73 ppm) and Zn (up to 192 ppm) in the tills around the East Arm area of Temagami Lake (Veillette 1996).

Several studies undertaken by the Ontario Geological Survey have investigated the potential for diamonds in the Temagami survey area (Sage 1996; Allen 2001; Reid 2002). Kimberlites, the primary host rock for diamonds, have been discovered north of the survey area where northwest-trending faults intersect northeast-trending fault systems. The presence of intersecting fault systems is being used as a preliminary indicator of favorable environments for the emplacement of kimberlites (Sage 1996). The Temagami study area is characterized by crossing fault and shear zones and the aforementioned studies highlight zones with kimberlite indicator minerals. The highest potential appears east of Lake Temagami and along the Ottawa River where anomalous areas of kimberlite indicator minerals (KIMs) have been identified.

OVERVIEW OF HISTORICAL AND CURRENT MINING ACTIVITIES AND LAND USE ISSUES

Temagami is well known for its tourism and wilderness recreation as well as for its logging and mining heritage. Within the survey area there are currently 35 provincial parks and conservation reserves; 28 are regulated with 2 slated for withdrawal from staking. In addition, there are many more forest reserves and enhanced management areas currently being considered for protection under the Ontario Living Legacy land use strategy. Information regarding the status of new parks and their potential withdrawal from staking can be obtained by accessing the Crown Land Use Atlas of the Ministry of Natural Resources (2004) at http://www.ontarioslivinglegacy.com/. The Temagami Land Use Plan is also available from this site.

Another land use issue within the survey area is the Temagami Land Claim Negotiations involving the Temagami First Nations. The claim area extends from River Valley northward to Matachewan and covers most of the Temagami survey area. Land use issues and the status of mineral exploration and mine development of the area is discussed in the Regional Land Use Geologists' annual report of activities for northeastern Ontario (Debicki et al. 2004).

Sediment Sampling Methods

Significant mining activities have occurred in the survey area since the early 1900s thus posing both operational and scientific challenges. Operational challenges include the significant cultural (human) presence throughout the region and its effect on the collection of samples. Scientifically, the challenge was to "see" through almost 100 years of mining and environmental disturbance and understand background geochemical conditions as they would have existed before any industrial activity began. During the mid-1980s the OGS developed a gravity coring device that allowed for the rapid collection of lake sediments and the reliable discrimination between surface and deep lake sediments (Fortescue 1988). Since then, the equipment and methodology have been updated and refined.

Organic lake sediment samples were collected using the OGS sediment sampler from a helicopter float. In order to avoid anthropogenic metals derived from point or non-point sources of pollution and to avoid water-sediment interface effects (i.e., diagenetic cycling of Mn due to anoxic conditions resulting in secondary scavenging and/or accumulation of base metals), only the deep (older) sediment (>20 cm below the sediment surface) was collected. This deep sediment, which pre-dates industrial activity, closely reflects the natural geochemical inputs to the lake bottom attributable to the geology of the area.

A sampling depth of >20 cm has been consistently used by the OGS since the early 1980s. It was initially based on studies of 8 test lakes in the Sudbury and Wawa regions which showed that the rise of *Ambrosia* pollen occurred at a sediment depth of 10 to 15 cm (Dickman and Fortescue 1984; Fortescue, Dickman and Terasmae 1984). The rise in the ragweed pollen *Ambrosia* corresponds to the onset of extensive deforestation associated with agricultural development during the post-industrial period of the past 100 years (Dickman and Fortescue 1984). The age of the *Ambrosia* pollen rise has been verified by Pb^{210} dating of lake sediment cores, including 2 lakes north of Lake Wanapitei (Dickman and Fortescue 1991). The pollen rise within these lakes occurred at a depth between 14 and 17 cm, using a calculated sedimentation rate of approximately 1.2 mm per year. The standardization to 20 cm sampling depth was made to account for variations in sedimentation rates between different landscape environments. More recent studies in the Sudbury area confirm that a sample depth of 18 to 20 cm is adequate to avoid contamination (Dr. N. Belzile, Laurentian University, 2004, personal communication). One such study was carried out in the Sudbury area (Hunt 2003) in which sediment from 14 lakes were cored and Pb^{210} age-dated. The sedimentation rate averaged 1.6 cm per decade. Therefore a 20 cm depth in lake sediment corresponds to approximately 125 years. Most of the lakes investigated by Hunt's (2003) study were also sampled by the OGS for the Sudbury area lake sediment geochemical survey (Dyer, Takats and Felix 2004). The pre-1880 sediment chemistry of Hunt's (2003) study is comparable with the results of the Sudbury project.

Water Sampling and Limnological Parameters

Water quality parameters (pH, conductivity, oxidation-reduction potential, dissolved oxygen) were obtained from most lake sites using a YSI water quality analyzer. This was done using a diaphragm pump, plastic hoses and a flow cell. Water was pumped from the lake and allowed to purge the hoses and flow cell prior to the recording of water quality parameters of the water held in the flow cell. The depth of sampling was 0.5 to 1 m in most lakes. At deep lakes (>5 m deep) water was obtained from a depth of 2 m. A depth finder was used to determine lake depths.

A water sample was obtained at each lake after the purging of the supply hose and pump. A "Y" connection before the flow cell was opened and closed as appropriate to fill a clean, new 250 ml HDPE bottle. Samples were kept cool and shipped in coolers for analysis.

A global positioning system (GPS) receiver was utilized to record accurate sample site positions. Field notes were recorded on standardized forms and entered into a Microsoft® Access database at the end of each day.

Sample Preparation and Analytical Methods

Lake sediment samples were placed in breathable fabric bags after collection and partially air dried prior to shipment to the OGS Geoscience Laboratory (GeoLabs) in batches of 500 to 1000 samples. A total of 2441 sediment samples were submitted to the laboratory. The samples were oven dried at a temperature not exceeding 40°C and dried samples were disaggregated using a ring and puck pulverizer made of ceramic. Samples were sieved to obtain the -80 mesh (<177 μm) size fraction.

Laboratory analysis by GeoLabs consisted of aqua regia digestion of 0.5 g of sample pulp followed by inductively coupled plasma mass spectrometry (ICP-MS) and inductively coupled plasma optical emission spectroscopy (ICP-OES) to determine approximately 50 trace elements. Aqua regia digestion attacks all sample matrix constituents, except for silicate minerals, and therefore is considered a nonselective, relatively strong partial extractant. Geolabs also performed loss-on-ignition (LOI) at 500° C on 0.5 g of each sample pulp, using an automated furnace-gravimetric technique.

Becquerel Laboratories was contracted to perform instrumental neutron activation analysis (INAA) using epithermal irradiation. Approximately 10 g of each sample pulp was pressed into a briquette prior to INAA for Au, As and a suite of 25 other elements. There was sufficient material to analyze 2414 samples by INAA.

Activation Laboratories was contracted to perform low-level Au and PGE analysis by fire assay with ICP-MS finish (FA-ICP-MS). Following ICP-MS, ICP-OES and INAA analyses, a total of 2201 samples had sufficient material remaining (minimum 5 g) for FA-ICP-MS analysis.

Quality Control Results

Quality control/quality assurance (QC/QA) in the field is crucial to a successful geochemical sampling program. Quality control involves 1) proactive measures at the time of sample collection; and 2) quality assurance procedures at all stages of the sample collection/handling/analysis process. To ensure that OGS protocols were respected, a rigid quality assurance program was instituted to ensure the integrity of samples collected and data acquired. The program involved 4 components:

1. A mandatory information and training session for the contractor prior to the commencement of field work. Follow-up information sessions and/or field visits by the OGS staff were carried out to ensure all aspects of sample protocols and requirements were understood and were implemented by the contractor.

2. The collection of method (field) duplicates by OGS staff at approximately 2% of lakes sampled. This procedure was intended to provide a fair determination of the contractor's performance with respect to sample collection and handling techniques, maintenance of water quality measuring equipment and recording of sample site locations. Field duplicates were obtained for both Temagami and the adjacent Sudbury survey areas (Dyer, Takats and Felix 2004). They were cycled in with the Quality Control samples following fieldwork.

3. The insertion of Quality Control samples by the OGS, including method (field) duplicates, homogenized sample duplicates and certified reference standards (to determine laboratory accuracy)

into the sample sequence between sample preparation and laboratory analysis. Sample numbers were altered to prevent detection of quality control samples by the laboratory. Samples for both Temagami and Sudbury surveys were submitted together and therefore under similar quality control scrutiny. Quality control (QC) samples were inserted into the sample sequence at the rate of 1 QC sample per 10 unknowns. The QC sediment samples consisted of field duplicates, analytical (pulp) duplicates, certified reference standards (CRS) and 2 internal (OGS collected) bulk standards. Field (method) duplicates were inserted with a frequency of 1 in 40. Analytical pulp duplicates were prepared by halving 1 in 40 of the dried sample pulps and inserting them into the sample sequence. CANMET certified reference standards (LKSD 1 and 4; Lynch 1990) and 2 OGS internal standards were also inserted as dried pulps between the sample preparation and analysis stages. On average, every 20th sample was either a CRS or an OGS internal standard.

4. Monetary penalties to the contractor for the collection and/or submission of inorganic samples and inadequate sample size.

Table 1 contains a summary of the elements analyzed, including some basic statistics of the geochemical data sets and quality control data such as estimates of precision and coefficients of variation for the certified reference materials. A complete listing of all data used to prepare these tables are contained in the associated Miscellaneous Release—Data (MRD 137) published separately from this report.

Analytical precision for each element was determined by plotting duplicate data on an X-Y chart and determining the variation of 95% of the data from a 1:1 ratio. Accuracy was determined by plotting the sequential values returned for certified reference standards inserted in the batch against a vertical scale of concentration and comparing this with the "provisional values" (Lynch 1990) for the standards. The mean and standard deviation of values returned for each standard were also compared with the provisional values.

The quality of the ICP-MS and OES data sets is excellent. The determinations of all metals (e.g., Cu, Cr, Ni, Co, Pb, Zn) in the QC samples displayed excellent precision and accuracy. The QC results for the certified and in-house standards for the lithophile elements Be, Hf, Nb, W and Zr were somewhat erratic, as evidenced by their relatively high coefficients of variation (*see* Table 1). This behaviour is largely due to the variable and often incomplete digestion of the silicate phase by aqua regia prior to analysis by ICP-MS. This incomplete digestion is demonstrated by the low mean levels returned for many of the lithophile major and minor elements shown in the LKSD-1 and LKSD-4 results (*see* Table 1). For example, the certified level of aluminum (Al) in LKSD-1 is 41300 ppm obtained by total digestion (Lynch 1990). The mean result for Al in LKSD-1 obtained by this study was 3981 ppm via the "near total" aqua regia digestion.

The multi-element ICP-MS scan included the determination of Hg. Although the sample preparation and analysis methods employed by this survey were not optimal for Hg determinations (i.e., some samples were inadvertently dried at a high enough temperature to volatilize Hg) the QC screening indicates the data set is acceptable for publication and is therefore included in this report and the digital data release.

The results of the QC screening of the INAA data set indicated that Au was of insufficient quality for publication. Arsenic by INAA was of superb quality, in both accuracy and precision. The estimated precision for As, from the analysis of duplicate pairs, was ±1.5 ppm. With regard to the rest of the INAA elements, no QC issues were detected and all data are published in MRD 137.

Table 1. Temagami area lake sediment data set, summary of elements analyzed by ICP, FA-ICP and INAA and quality control data, including estimates of precision.

				(n=2441, based on ICP-MS)			147 pairs	LKSD-1 Reference Standard (n=79)			LKSD-4 Reference Standard (n=82)		
Element	Analytical Method	Units	MDL	Median	RANGE		Estimated Precision	Certified Value	Mean Q.C. Result	Coefficient of variation (%)	Certified Value	Mean Q.C. Result	Coefficient of variation (%)
					Min	Max							
Ag	ICP-MS	ppm	0.02	0.11	<0.02	5.50	± 0.08	0.6	0.60	12.3	0.2	0.23	19.1
Al	ICP-OES	ppm	30	9660	1250	35606	± 1000	41300	3981	6.8	31200	11711	5.8
As	INAA	ppm	0.5	2.6	<0.5	397.0	± 1.5	40	37.9	3.5	16	16.7	9.8
Au	FA-ICP-MS	ppb	1	<1	<1	132	±7	5	4	75.50	2	3	230.7
Au	INAA	ppb	2	<2	<2	190	± 8	5	3	121.1	2	3	39.9
Ba	ICP-OES	ppm	3	74	13	1346	± 10	430	88.60	4.1	330	134.50	4.1
Be	ICP-MS	ppm	0.10	0.35	<0.10	3.94	± 0.7	1.1	0.17	119.6	1	0.44	62.0
Br	INAA	ppm	0.5	37.0	<0.5	121.0	± 3	11	11.3	5.4	49	53.0	2.7
Ca	ICP-OES	ppm	15	6302	586	71481	± 500	77200	68769	2.4	12900	9449	3.7
Cd	ICP-MS	ppm	0.050	0.664	<0.050	3.336	± 0.2	1.2	1.575	6.2	1.9	2.089	4.9
Ce	ICP-MS	ppm	0.03	44.32	<0.03	400.00	± 10	27	17.10	8.3	48	38.68	7.2
Co	ICP-MS	ppm	0.05	6.09	0.34	122.30	± 2	9	7.87	4.3	11	9.08	4.1
Cr	ICP-OES	ppm	4	25	<4	159	± 4	12	13	5.2	21	21	5.2
Cs	ICP-MS	ppm	0.01	0.43	0.03	3.00	± 0.2	1.5	0.52	6.1	1.7	1.11	5.7
Cu	ICP-OES	ppm	5	36	<5	564	± 2	44	43	6.0	30	30	3.9
Dy	ICP-MS	ppm	0.05	2.64	<0.05	33.42	± 0.4	-	1.80	6.2	-	3.00	3.9
Er	ICP-MS	ppm	0.01	1.29	0.01	16.40	± 0.2	-	1.02	7.0	-	1.73	5.2
Eu	ICP-MS	ppm	0.05	1.17	<0.05	15.81	± 0.1	-	0.51	8.0	-	0.96	6.5
Fe	ICP-OES	ppm	5	6500	801	303507	± 1500	18000	18811	3.3	27000	25850	3.8
Ga	ICP-MS	ppm	0.05	2.07	0.18	9.26	± 0.5	-	2.17	7.6	-	4.25	5.3
Gd	ICP-MS	ppm	0.05	4.88	<0.05	67.88	± 0.8	-	2.49	6.0	-	4.23	5.0
Hf	INAA	ppm	1	1	<1	12	± 1	3.6	4	8.7	2.8	3	3.7
Ho	ICP-MS	ppm	0.01	0.49	0.01	6.00	± 0.05	-	0.36	6.3	-	0.60	4.2
K	ICP-OES	ppm	100	253	<100	2548	± 150	9100	383	8.2	6600	824	7.0
La	ICP-MS	ppm	0.05	31.53	<0.05	350.00	± 4	16	10.66	3.9	26	21.48	3.5
Li	ICP-MS	ppm	0.50	2.98	<0.50	35.30	± 2	7	4.00	9.9	12	9.23	8.4
LOI	Grav.	%	0.01	51.1	10.4	94.3	± 1	23.5	23.40	7.1	40.8	41.23	0.8
Lu	ICP-MS	ppm	0.005	0.15	<0.005	2.78	± 0.02	0.4	0.14	9.0	0.5	0.25	4.8
Mg	ICP-OES	ppm	20	1342	234	14242	± 500	10300	6349	3.3	5400	3874	4.2
Mn	ICP-OES	ppm	1	107	7	13746	± 30	460	413	3.4	430	407	4.2
Mo	ICP-MS	ppm	0.10	1.26	<0.10	56.46	± 0.2	12	10.00	4.3	2	1.78	7.0
Na	ICP-OES	ppm	10	54	15	2325	± 30	14800	282	11.4	5200	205	11.0
Nb	ICP-MS	ppm	0.05	0.41	0.08	2.77	±0.2	7	0.82	17.1	9	1.27	7.0
Nd	ICP-MS	ppm	0.08	31.36	<0.08	507.14	± 3	16	12.40	5.0	25	22.44	2.9
Ni	ICP-OES	ppm	5	23	<5	115	± 5	11	15	5.7	32	33	4.9
P	ICP-OES	ppm	50	954	199	5722	± 50	900	737	2.5	1300	1324	3.6
Pb	ICP-MS	ppm	0.05	6.07	0.10	150.26	± 1.0	84	81.16	5.3	93	92.87	3.6
Pd	FA-ICP-MS	ppb	0.3	0.8	<0.3	8.1	± 1	-	-	-	-	0.63	46.2
Pr	ICP-MS	ppm	0.05	7.96	<0.05	138.83	± 1	-	2.91	3.8	-	5.65	3.2
Pt	FA-ICP-MS	ppb	0.3	1.0	<0.3	7.5	± 2	-	-	-	-	1.0	81.2
Rb	ICP-MS	ppm	0.05	3.16	0.40	35.62	± 1.5	24	3.61	4.8	28	10.27	4.9
S	ICP-OES	ppm	30	4218	558	30702	± 200	15700	15900	2.9	9900	9800	3.5
Sb	ICP-MS	ppm	0.05	0.11	<0.05	4.42	± 0.05	1.2	0.65	9.8	1.5	1.24	4.8
Sc	ICP-MS	ppm	0.10	2.20	<0.10	28.00	± 0.8	9	2.56	9.6	7	4.04	6.4
Sm	INAA	ppm	0.05	5.90	0.10	82.70	± 0.5	4	2.52	6.2	5	5.10	4.5
Sn	ICP-MS	ppm	0.50	<0.50	<0.50	4.17	± 0.25	16	3.16	7.8	5	3.17	9.3
Sr	ICP-OES	ppm	0.10	26.00	7.00	375.00	± 4	250	61.34	4.0	110	38.83	4.0
Ta	INAA	ppm	0.5	<0.5	<0.5	2.3	± 0.7	0.3	0.4	63.8	0.4	0.4	55.6
Tb	ICP-MS	ppm	0.05	0.56	<0.05	7.28	± 0.1	0.6	0.33	6.6	1.2	0.55	4.5
Th	ICP-MS	ppm	0.05	0.34	<0.05	35.31	± 0.8	2.2	1.41	7.4	5.1	2.01	7.0
Ti	ICP-OES	ppm	3	101	21	1135	± 120	3010	337	12.6	2270	442	8.5
Tl	ICP-MS	ppm	0.05	0.10	<0.05	0.89	±0.03	-	0.23	5.3	-	0.44	5.4
Tm	ICP-MS	ppm	0.005	0.19	<0.005	2.60	± 0.05	-	0.14	9.8	-	0.25	6.2
U	ICP-MS	ppm	0.05	1.70	<0.05	59.58	± 0.3	9.7	8.73	3.8	31	30.28	3.3
V	ICP-OES	ppm	5	18	<5	280	± 3	27	21	5.5	32	32	4.7
W	ICP-MS	ppm	0.05	0.07	<0.05	1.03	± 0.08	<4	0.66	26.8	<4	0.25	30.0
Y	ICP-MS	ppm	0.05	13.39	0.21	169.87	± 1	19	10.60	5.5	23	16.98	3.9
Yb	ICP-MS	ppm	0.05	1.05	<0.05	18.13	± 0.2	2	0.91	7.8	2	1.61	5.1
Zn	ICP-OES	ppm	2	70	5	386	± 6	337	332	3.1	189	183	3.1
Zr	ICP-MS	ppm	0.10	0.47	<0.10	29.72	± 1	134	1.66	26.1	105	0.99	21.4

Notes:

1. ICP-MS= Inductively Coupled Plasma Mass Spectroscopy. (aqua regia digestion)
2. ICP-OES= Inductively Coupled Plasma Optical Emission Spectroscopy. (aqua regia digestion)
3. INAA= Instrumental Neutron Activation Analysis.
4. MDL= method detection limit.
5. Estimated precision at 95% confidence level; ICP-MS FA-ICP-MS, INAA and OES elements based on results of 147 duplicate pairs.
6. Q.C. Result= Average value obtained for combined Sudbury and Temagami study areas
7. Coefficient of variation at one standard deviation (68% confidence level)
8. LKSD-1 and LKSD-4 are CANMET certified reference materials; For ICP elements, quoted reference values for Ag, As, Cd, Co, Cr, Cu, Fe, Hg, Mn, Mo, Ni, Pb, Sb, V, Zn determined by partial digestion; all other ICP elements determined with total digestion For INAA elements, reference values for LKSD-1 and LKSD-4 are from total digestion methods.
9. Statistics for LKSD standards are compiled from all LKSD QC samples inserted in both Sudbury (Dyer, Takats, and Felix 2004) and Temagami area lake sediment surveys

The QC results for Au by FA-ICP-MS indicated unacceptable precision, as with the INAA method. The estimated precision of ±7 ppb, determined by the analysis of over 100 blind duplicate pairs, was significantly worse than that achieved in previous OGS experience. The precision of the elements Pt and Pd by FA-ICP-MS was very good. The estimated precision for Pt and Pd were ±2 and ±1 ppb, respectively. This compares very favourably with previous OGS experience.

Discussion of Limnological Parameters: Water pH and Conductivity

The impact of urbanization and industrialization is reflected in the water chemistry and the sediment geochemistry of the Temagami area lakes. Temagami lies in the vicinity of 3 major urban centres: Sudbury to the west, Sturgeon Bay–North Bay to the south and the Tri-towns (Cobalt, New Liskeard and Haileybury) to the north. Despite the presence of past producing mines, saw mills, the pits of the closed Sherman Mine and the centres of Temagami and Temagami North, the area is still largely dominated by natural forested land. The following is a discussion of the lake water quality (limnological) field data recorded by the YSI units, with reference to the chloride, sulphate and alkalinity concentrations, determined by laboratory analysis from Laurentian University (G.A. Spiers, MIRARCO, unpublished data 2001). The data is represented in dot plots superimposed over geological maps (Appendix A).

The lake sediments within the Temagami survey area were sampled at depths ranging from 0.5 to 46 m and averaging 6.2 m. Ninety percent of the lake sediments were sampled at depths less than 13 m. The deepest lakes are located north of the Grenville Front where deep shear zones and fracture systems control the topography and drainage. Generally, the deepest lake sediment samples were collected from the largest lakes (Temagami Lake, 29 to 44 m; Marten Lake, 46 m in Gladman Township) These lakes tend to be relatively inorganic (11 to 46%) and are bedrock dominated in the Temagami Lake area or in thick surficial materials, such as the kettle lakes of the McConnell Lake Moraine.

The overall mean values for pH and electrical conductivity (EC) for water samples collected in the survey area are 6.4 and 50 µS/cm, respectively. The pH values range from 3.4 to 8.8 with a median of 6.7. The EC values range from 11 to 923 µS/cm with a median of 36 µS/cm.

The distribution of lake pH in the Temagami survey reflects the presence of glaciolacustrine material and, to a lesser extent, the presence of mafic basement rocks in the area. Alkaline lakes (pH >7) trend southwesterly in a belt extending from the Montreal River area to Marten River. Another cluster overlies the McConnell Lake Moraine, leaving a narrow wedge between the glaciofluvial complex and Highway 11 with comparatively acidic lakes (pH <7). In this study, the lakes with the highest alkalinity values are found on the northern side of McConnell Lake Moraine, on either the till, outwash or in bedrock close to the moraine and are associated with high pH values.

Similar results were obtained by Veillette (1996) who reported higher pH and alkalinity in lakes of the McConnell Lake Moraine and again in a cluster north of this limit (towards the northeast arm of Temagami Lake), with lakes of much lower pH in between. Veillette (1996), who determined carbonate in the fine fraction of the tills on the east side of the McConnell Lake Moraine but not in the tills surrounding the moraine, associates the lake water results with carbonate content of the sand and silt of the moraine. The carbonate source was attributed to the Paleozoic outlier located approximately 75 km to the northwest. The tills to the northwest (Montreal River, and north of Temagami Lake) also contain Paleozoic carbonate clasts. In both studies, the pH and alkalinity drop off with increasing distance from the moraine.

Low pH (<3) lakes are clustered in several areas of exposed bedrock: to the northwest in the Gowganda Formation of the Huronian Supergroup; to the southeast in felsic igneous rocks of the Grenville Province; and in a band of acidic lakes that encircle the McConnell Lake Moraine (Grenville Province). These acidic lakes are generally associated with low electrical conductivity regardless of the underlying substrate. The results of the statistical treatment of lake water chemistry showed that lake waters overlying organic deposits have a mean pH=5.9 (N=35), over bedrock pH=6.3 (N=2120) and over surficial material (e.g., tills, outwash) pH=6.8 (N=485). Further splitting of the data set into lithological units showed the following relationship of mean pH of lake water to bedrock type: pH=7.3 (N=124) overlying the TGB metavolcanics; pH=6.3 (N=892) overlying Huronian Supergroup; pH=6.8 (N=327) overlying Nipissing Diabase; pH=6.1 (N=615) overlying migmatitic rocks of the Grenville Province; pH=5.8 (N=153) overlying the felsic igneous rocks of the Grenville Province. These results are similar to previous lake sediment geochemical studies by the OGS which show that lakes underlain by felsic rocks tend to be more acidic than those underlain by mafic rocks and surficial material.

The EC of the lake waters within the Temagami survey can be subdivided into 4 distinct populations: high conductivity due to high sulphate concentrations (mining activities), high conductivity due to high chloride concentrations (road salt), elevated conductivity due to carbonate in surficial materials and background conductivity due to regional geology.

The highest values of EC in this study are found in lakes adjacent to the open pits and wastes of the Sherman Mine. Located between Vermilion Lake and Link Lake in Strathy Township, sites 3098, 3095, and 3097 have conductivity values of 923, 727 and 541 µS/cm, respectively. These lakes are alkaline (pH >8; measured alkalinity ranges 25 to 75 mg/L) and also have the highest sulphate contents within the survey: 489, 359, 222 mg/L sulphate, respectively. This area of the TGB is underlain by banded iron formation and is adjacent to the former north pit of the Sherman Mine which is characterized by a carbonate- and sulphide-facies iron formation with known exposures just south of the dam on Vermillion Lake (Bennett 1978).

High EC values are also associated with very high chloride concentrations in lakes situated along Highway 11 and to a lesser extent Highway 64. These lakes are alkaline; however, they have the highest chloride contents of the survey but low sulphate concentrations. The EC of the lakes decreases from 200 to 500 µS/cm to less than 100 µS/cm with increasing distance away from the major roads. Road salt on the major roadways (namely Highway 11) of the Temagami area has been identified as the main contributor to elevated sodium and chloride levels in the groundwater (Ray 2002). Depending upon direction of the groundwater flow in the various catchments, chloride concentrations from road salt can be observed as far as 20 km from the source.

Badgerow and Field townships show very high conductivity values associated with high chloride content within the Municipality of Field. Sites 2058, 2059, 2060 show sulphate concentrations at the 95th percentile levels (10 mg/L sulphate) for the study area and pH ranges of 7 to 8.

Another cluster of high conductivity lakes occurs over the McConnell Lake Moraine area. These lakes are associated with high pH values and the highest values of alkalinity (carbonate) in the study area. The lakes are located on the northern side of McConnell Lake Moraine in till, outwash or on bedrock close to the moraine.

The results of the statistical treatment of the electrical conductivity data shows that the mean EC increases from organic deposits (27 µS/cm), to bedrock (39 µS/cm) to surficial material (66 µS/cm): the average for the regional data set is 50 µS/cm. Further data reduction (where a sufficient sample population permitted) into lakes overlying specific bedrock units shows the following relationship of the mean EC to lithological units: EC=119 µS/cm (N=124) overlying the TGB metavolcanics; EC=43 µS/cm

(N=892) overlying Huronian Supergroup; EC=43 µS/cm (N=327) overlying Nipissing Diabase; EC=39 µS/cm (N=615) overlying migmatitic rocks of the Grenville Province; EC=35 µS/cm (N=153) overlying the felsic igneous rocks of the Grenville Province.

General Considerations for Lake Sediment Geochemical Data Interpretation

Factors to consider when assessing the possible significance of an anomaly are as follows:

1) Correlation with geology

In mineral exploration, correlation with geology is the most important factor when assessing the significance of a surficial geochemical anomaly. The Temagami area has over 100 years of mining and mineral exploration; hence, extensive detailed mapping of the region is available. Whenever possible, lithogeochemistry of the local bedrock is used to confirm and/or correlate lake sediment geochemical data as well as watershed drainage patterns.

2) Multi-site anomalies

Multi-site anomalies provide separate verification of the "anomalousness" of a given area and provide some insurance against non-systematic errors in sample quality, collection, preparation or analysis. However, since samples are collected, prepared and analysed in sequence, a uniform and numerically sequential anomaly may be the result of a systematic analytical or sample preparation error. This might be expected to produce an apparent geographic grouping of fairly uniform concentrations in one, or possibly several, elements. Every effort has been made to detect this kind of problem but the user is reminded to consider all available data when assessing the importance of an anomaly.

3) Multi-element anomalies

Multi-element anomalies with geologically reasonable elemental assemblages are useful in assessing the importance of many anomalies. The associations of metals (and metalloids) with other elements, called pathfinders, and their behaviour in the natural environment are well documented in the literature. However, elemental associations are also used to confirm unique geologic environments. For example, Pt and Pd, which are relatively immobile in the surficial environment compared to base metals, such as Cu, Ni, Pb and Zn, would not normally be expected to be found in anomalous levels in a lake sediment without an accompanying base metal signature. However, certain multi-element anomalies (e.g., Mo and Zn) can sometimes result from limnological factors (e.g., redox conditions related to deep lakes, relative level of organic material in the sediment).

4) Magnitude of the anomaly

The magnitude of an anomaly, perhaps surprisingly, is one of the least important assessment criteria. Magnitude depends not only on the size of a deposit or occurrence but on its distance from the lake, the presence and effectiveness of sinks between the source and lake, the limno-geochemical conditions in the lake, the weatherability of the deposit and the character of the surficial deposits (i.e., level of carbonate). The weatherability depends on factors such as exposure and/or depth of burial and on the specific mineralogy of the source. All these factors combine to make magnitude an unreliable estimate of the importance of an anomaly except in extreme cases or in cases where multiple samples and/or media corroborate its importance.

5) Correlation with surficial geology

Unconsolidated deposits can, under certain circumstances, cause a greater impact on the chemistry of lake media than can bedrock. Carbonate materials within eskers and thick ice-contact stratified drift deposits often result in relatively hard, alkaline lake waters. This type of lake water provides a geochemical matrix for trace elements which is very different to that of most shield lakes which are mildly acidic and organic dominated. In general, most metals are relatively immobile in such alkaline conditions; therefore, geochemical anomalies might be considered more significant and perhaps relatively close to source.

6) Redox conditions, lake depth and organic content

Not all spatial trends in geochemistry are due to lithological or mineralogical factors. The solubility of trace metals depends to a large extent on the geochemical matrix and in particular, on pH and oxidation-reduction (redox) conditions. Redox conditions in a lake are usually controlled by thermal conditions which, in turn, are controlled by lake morphology and lake depth. If conditions are suitable for an element to preferentially partition into the lake sediment, factors that may influence (enhance) the concentration of the element include the abundance of Fe, Mn and organic material. The mechanisms that may lead to "false anomalies" include sorption (scavenging) by hydrous oxides of Fe and Mn and the affinity of some elements to form organo-metallic complexes. Enrichment of some elements in the shallow (surface to 10 cm deep) sediment due to the upward migration and precipitation/concentration of Fe and Mn (and other trace elements such as Co, Pb, Mo and Zn originally co-precipitated with Fe and Mn) can occur. The OGS sampling technique avoids the surface sediment and targets the deep (>20 cm) sediment thereby reducing and minimizing the effects of Fe, Mn and base metal enrichment that may occur in the surface sediment, whether by diagenetic cycling or by anthropogenic input. This assumes a similar sedimentation rate in all of the sampled lakes and that the lake sediments deposited over the past several hundred years being undisturbed. This may not always be true. Sedimentation rates can vary depending on the energy of and the input to the depositional environment. Other factors to consider are sediment slumpage and mudslides, the effects of wavebase and the activities of animals. Therefore, the inadvertent collection of some "mixed" (shallow and deep sediment) samples is occasionally unavoidable.

Discussion of Regional Lake Sediment Geochemical Patterns

The most important factors controlling the regional deep lake sediment geochemical patterns over the Temagami survey area, in order of importance, are geology, variations in bulk composition of the sediment (relative proportions of organic and inorganic material estimated by LOI) and local urbanization and/or mining disturbances. The effects of atmospheric fallout of particulate matter were avoided by the collection of only deep (>20 cm) organic-based sediment. The possible exception to this are lakes with a much greater sedimentation rate than average or lakes containing disturbed sediment. The former is possible in the Temagami area, because of the extent of logging that has occurred over the past 100 years as well as disturbances and alterations to drainage basins due to mining (especially the Sherman Mine).

The influence of surficial material on the geochemistry of the lake sediments within the Temagami survey area is significant in 2 areas: a substantial area of till covers a granodiorite/granite unit in Best Township and a second complex of till and outwash is located in the McConnell Lake Moraine. Apart from these 2 areas, the geochemistry of the lake sediments in the Temagami survey area is influenced predominantly by the bedrock geology.

The large data set enabled statistical differentiation of lake sediment geochemical patterns over various lithologies and geological provinces. The statistical analysis revealed distinct geochemical signatures for each of the 3 major rock types: the Huronian Supergroup, the Nipissing Diabase gabbroic rocks and the gneissic rocks of the Grenville Province. All sites located on surficial material overlying these bedrock rock types were removed from this data set: glaciofluvial outwash deposits, N=212; and till deposits, N=147. A separate statistical analysis was carried out on lake sediment data in sites situated on these surficial material to determine their effect over bedrock-influenced lake sediment geochemistry. Although the glaciofluvial outwash and till deposits appear to be the only deposits of substantial areal extent according to the 1:250 000 scale bedrock geology map used in this study (OGS 2003a), the area likely comprises various types of glaciofluvial materials locally in varying thickness in pockets or as extensive deposits of thin, discontinuous sediment cover.

The statistical analysis above reveals significant differences in the geochemical signatures of lake sediments overlying the Huronian Supergroup, Nipissing Diabase and Grenville gneissic rocks. The general trends of the mean concentration of various elements in the lake sediments overlying these rock types are discussed below.

Lake sediment overlying the Nipissing Diabase (N=267) tends to be elevated in silver, arsenic, copper, nickel and sulphur compared to the Huronian and Grenville rocks. Mean platinum and palladium concentrations are slightly higher; however, the estimated precision of ±1 ppb for both Pd and Pt strongly suggests that the Grenville and Huronian rocks are barren. Cobalt is found in similar concentrations in both the Huronian and the Nipissing, which is not surprising considering cobalt is not hosted by either, rather in carbonate veins at the contact of the 2 rock types. The diabase rocks are also higher in cadmium, lead, scandium, tin and zinc. Lake sediments overlying the Nipissing Diabase rocks therefore have higher mean concentrations of Ag, As, Cd, Cu, Ni, Pb, Pt, Pd, S, Sc, Sn and Zn.

The geochemistry of the lake sediments overlying the Grenville migmatitic and gneissic rocks (N=506) differ from the other 2 with a unique assemblage of elements. The mean chromium concentration in lake sediment is only slightly greater in the migmatitic rocks, but the following elements occur in much higher concentrations: Cr, Cs, Ga, Li, Rb, Sr, Ta, Ti, Tl and Total REEs.

The geochemistry of the lake sediments overlying the Huronian Supergroup (N=717) are characterized by higher mean concentrations of Ba, Be, Fe, Hf, Mo, Sm, V, U, Zr and slightly higher Th.

A similar statistical analysis was performed on the distribution of elements in lake sediments from lakes located overlying 2 major types of surficial sediments, till and glaciofluvial outwash deposits. One of the major differences in the lake sediment geochemistry of lakes overlying the 2 sediment types is that the mean concentrations of Cr, Fe, Th, Ti, U, V, Zr, Ba, Rb and Total REEs were higher in the outwash than in the till. Not only were the mean values higher, but the standard deviation was up to 2- to 3-fold greater in the outwash than till, occasionally greater than the mean value itself. For example, the mean value of Fe in lake sediments overlying outwash deposits is 15 151 ppm ± 35 096 ppm. Till displays higher mean concentrations of Cu and Pb with similar standard deviations. Molybdenum is also found in higher concentrations in till, however, with a very large standard deviation: 3.01 ± 5.32 ppm. The mean concentrations of the elements Ag, Cd, Mn, Ni, S, Sr, Be, tend to be similar between the till and the outwash deposit with generally comparable standard deviations.

To determine the potential source and background levels of metals in the lake sediments of the McConnell Lake Moraine, a subset (N=85) of lakes underlain by sand and gravel of the moraine was removed from the larger data set. The mean (average) metal concentrations of bedrock-influenced (N=88) versus moraine-influenced (N=85) lake sediment chemistry were compared. The bedrock underlying the McConnell Lake Moraine is mainly quartzfeldspathic, pellitic to semi-pellitic and calc-silicate gneisses. The results showed that for some metals of interest such as Ag, Cd, U, there was no difference in their mean concentrations in lake sediments. However, the mean value of the following elements is higher in lake sediments underlain by surficial material: Co, Cr, Cu, Fe, Mn, Ni, Pb, S, Ti, V, Zn, As, Li, and Mo. The mean metal concentrations of REEs, Be and Sr are elevated in lake sediments overlying bedrock when compared to those overlying the sediments of the moraine.

The lake sediments overlying the various rock types of the survey area were statistically analyzed separately, provided the sample population was large enough, to provide mean concentration levels for interpretation. These values were then used to set the background concentration values for each rock type. A comparison of these results to the calculated regional values showed that some lithological units, namely the Nipissing Diabase and the metavolcanic rocks of the greenstone belt (the TGB) were distinctly anomalous in their background values compared to the rest of the survey area (especially for Pt, Pd, Cu, Ni, and Ag) and depleted in other elements (such as V and Ti). The igneous intrusions, the metamorphosed felsic rocks and the anorthosite/gabbro, are characterized by high background levels of the base metals Co, Cr, Ni, V, Zn and Zr. The migmatitic rocks of the Grenville Province tend to have comparatively elevated mean concentrations Be, Li, Rb, Sr, Th, U and REEs.

Lake sediment organic content (estimated by LOI) across the region displays a general trend of higher levels across the northern half of the study area that is characterized by the Cobalt Group of the Huronian Supergroup (Gowganda and Lorrain formations). This is a similar finding to the Sudbury lake sediment survey (Dyer, Takats, Felix 2004) which showed that lakes with greater proportion of organic content occur in the Huronian Supergroup compared to the lakes overlying Grenville rocks to the south. However, visual inspection of the dot plots suggests that lake sediments with greater amounts of organic matter occur in lakes situated within low relief areas and occur in shallower lakes. Large lakes tend to have clays in their profundal basins whereas smaller lakes are readily overtaken by vegetation and high biological productivity.

Silver and cobalt are widely present in the Temagami area lake sediments. These elements are present in elevated concentrations within a belt striking northeast, following occurrences of the Nipissing diabase throughout the Huronian Supergroup rocks. The Grenville Front creates a boundary between the more prevalent and higher concentrations of silver to the north from the sparsely distributed areas of the Grenville Province in the south. The highest concentrations of silver occur northeast of the Montreal River in the Silver Centre–Maiden's Bay area, the southern extension of the known silver belt that stretches from Gowganda to the Cobalt area. There are several areas in the Grenville with elevated levels of silver, more notably, the McConnell Lake Moraine in Osborne, Garrow and McAuslan townships. The unique chemistry of the lake sediments dictated by the deep lakes within surficial material result in redox conditions that liberate and render many metals mobile and has skewed the distribution of many metals in this survey.

Copper and nickel also have a spatial association with the Nipissing Diabase intrusions showing the highest values in a southwest band across Temagami Lake. The high copper and nickel results within the Huronian Supergroup can be traced to subsurface dikes and dike swarms. Maps of the total magnetic field reveal the dikes as lineations, along which both copper and cobalt anomalies appear to align. The highest values of copper occur in the TGB in Strathy Township (site 2986, 564 ppm; site 2976, 174 ppm); Huronian Supergroup in South Lorrain (site 2250, 560 ppm; site 2233, 321 ppm); and in the Nipissing Diabase in Best Township (site 2894, 280 ppm) and Joan Township (site 3359, 250 ppm).

Anomalous platinum and palladium areas are spatially related to the Nipissing Diabase. Their distribution shows a higher density in north and central areas of the survey area, especially where the diabase contacts the Huronian Supergroup. The clustering of anomalous sites along Highway 11 at Marten River, in the kettle lakes of McConnell Lake Moraine, and along lineations in both the Grenville and Southern (Huronian Supergroup) provinces is due to higher background levels of Pd and Pt in the igneous intrusive rocks than the host migmatitic rocks. The highest values occur in the TGB in Clement Township (site 2437, 8.1 ppb Pd), and in the Nipissing Diabase in Scholes (site 3420, 7.2 ppb Pd, 5.8 ppb Pt) and Joan townships (site 1646, 7.5 ppb Pt).

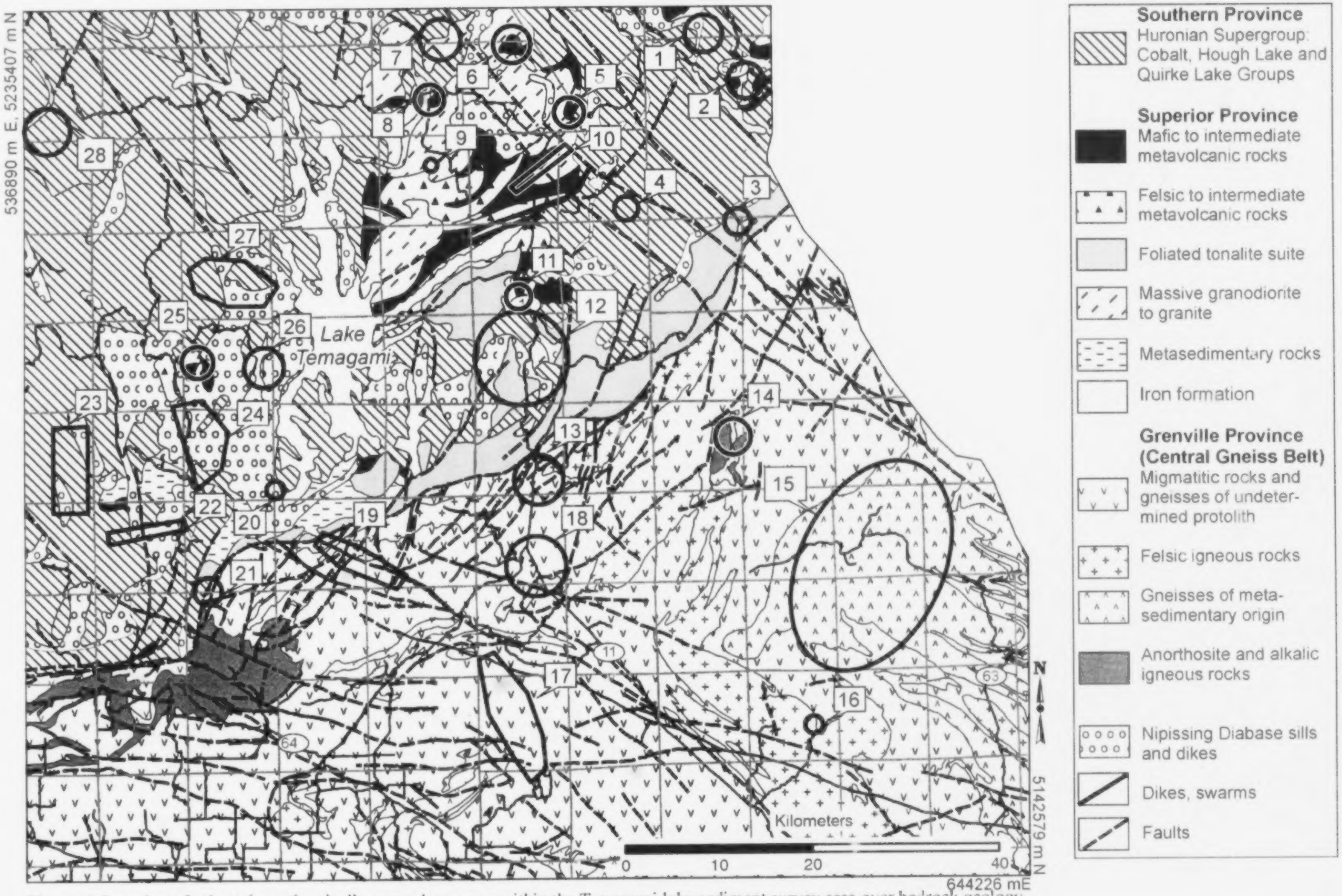
Description of Selected Anomalous Areas

Appendix A contains proportional dot plots (maps) for the following parameters: water pH; water electrical conductivity; sediment loss-on-ignition (LOI); and lake depth. Appendix B contains lake sediment dot plots for the following: Ag, Al, As, Ba, Be, Br, Cd, Ca, Ce, Co, Cr, Cs, Cu, Fe, K, Li, Mg, Mn, Mo, Na, Nb, Ni, P, Pb, Pd, Pt, Rb, Total REEs, S, Sb, Sc, Sn, Sr, Th, Ti, U, V, W, Zn and Zr. A total of 2441 ICP sample analyses were used to generate the dot plots. A total of 2201 FA-ICP-MS analyses were used to generate the Pt and Pd dot plots. Appendix C contains the analytical data for most of the elements of interest, and includes UTM coordinates in datum NAD 83, Zone 17N. All data has been included with the digital data release (MRD 137).

The following section is a summary of most significant multi-element and/or multi-site precious and base metal anomalous areas within the Temagami survey area. They have not been ranked. The most significant Pt and Pd anomalies, in terms of multi-site and multi-element character, are listed below. The approximate areal extent of the anomalous areas is outlined in Figures 4 and 5. A bedrock geology base was used for Figure 4, while the land tenure status as of June 1, 2004, is depicted on Figure 5. Note that some base metal anomalies and some single-site precious metal anomalies do exist in the data set that are not listed or discussed below.

The "±" symbol is used in the area description for a particular element that is present at elevated to anomalous levels in some, but not all, of the sample sites in the area discussed. The term "background" is used to indicate the average (mean) concentration value of the element for the data set. The term "elevated" means above the 90th percentile, while "anomalous" means greater than the 95th percentile. Highly anomalous means greater than the 98th percentile. A total of 13 lake sediment samples with loss-on-ignition values of <10% were excluded from the data set that was used to generate the statistics and dot plots for this report. The data for these samples are included within the digital data release, MRD 137.

Due to the high background levels for some elements in the vicinity of Nipissing Diabase and TGB rocks (for elements such as Ag and Co, and Ni and Cu, respectively), statistics for lake sample sites underlain by the 10 most common rock types were calculated separately for use in the interpretations below. The rock types are mafic to intermediate metavolcanic rocks (N=55), felsic to intermediate metvolcanic rocks (N=43), foliated tonalite suite (N=125), massive granodiorite to granite (N=155), Huronian Supergroup (Lorrain and Gowganda formations; N=717), Nipissing Diabase (N=277), Grenville gneisses of metasedimentary origin (N=136), Grenville migmatitic rocks and gneisses (N=523), Grenville anorthositic/alkalic rocks (N=14) and Grenville felsic igneous rocks (N=130). Therefore, the descriptions of anomalous areas underlain by these rock types may indicate lakes that are more or less anomalous than is apparent from the dot plots in Appendix B.



536890 m E, 5235407 m N
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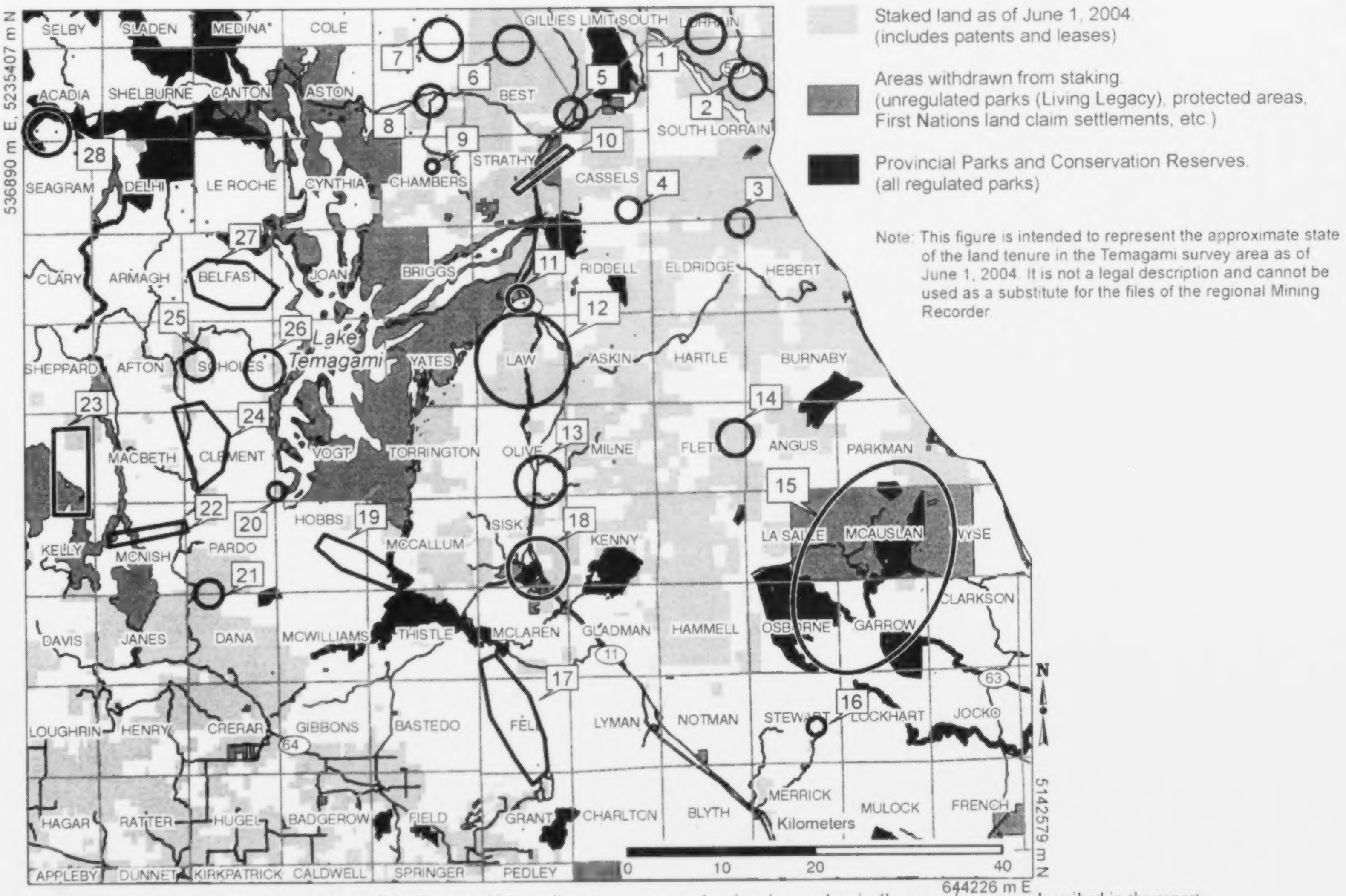
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
Lake Temagami
11
63
64
N
Kilometers
0
10
20
40
5142579 m N
644226 mE
Southern Province
Huronian Supergroup: Cobalt, Hough Lake and Quirke Lake Groups
Superior Province
Mafic to intermediate metavolcanic rocks
Felsic to intermediate metavolcanic rocks
Foliated tonalite suite
Massive granodiorite to granite
Metasedimentary rocks
Iron formation
Grenville Province (Central Gneiss Belt)
Migmatitic rocks and gneisses of undetermined protolith
Felsic igneous rocks
Gneisses of metasedimentary origin
Anorthosite and alkalic igneous rocks
Nipissing Diabase sills and dikes
Dikes, swarms
Faults

Figure 4. Location of selected geochemically anomalous areas within the Temagami lake sediment survey area over bedrock geology.


Staked land as of June 1, 2004.
(includes patents and leases)
Areas withdrawn from staking.
(unregulated parks (Living Legacy), protected areas, First Nations land claim settlements, etc.)
Provincial Parks and Conservation Reserves.
(all regulated parks)
536890 m E, 5235407 m N
5142579 m N
644226 m E
N
Kilometers
0
10
20
40
SELBY
SLADEN
MEDINA
COLE
GILLIES LIMIT
SOUTH LORRAIN
ACADIA
SHELBURNE
CANTON
ASTON
BEST
SOUTH LORRAIN
SEAGRAM
DELHI
LE ROCHE
CYNTHIA
CHAMBERS
STRATHY
CASSELS
CLARY
ARMAGH
BELFAST
JOAN
BRIGGS
RIDDELL
ELDRIDGE
HEBERT
Lake Temagami
SHEPPARD
AFTON
SCHOLES
YATES
LAW
ASKIN
HARTLE
BURNABY
MACBETH
CLEMENT
VOGT
TORRINGTON
OLIVE
MILNE
FLETT
ANGUS
PARKMAN
KELLY
MCNISH
PARDO
HOBBS
MCCALLUM
SISK
KENNY
LA SALLE
MCAUSLAN
VYSE
DAVIS
JANES
DANA
MCWILLIAMS
THISTLE
MCLAREN
GLADMAN
HAMMELL
OSBORNE
GARROW
CLARKSON
LOUGHRIN
HENRY
CRERAR
GIBBONS
BASTEDO
FEL
LYMAN
NOTMAN
STEWART
LOCKHART
JOCKO
HAGAR
RATTER
HUGEL
BADGEROW
FIELD
GRANT
CHARLTON
BLYTH
MERRICK
MULOCK
FRENCH
APPLEBY
DUNNET
KIRKPATRICK
CALDWELL
SPRINGER
PEDLEY
11
64
63
1
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Note: This figure is intended to represent the approximate state of the land tenure in the Temagami survey area as of June 1, 2004. It is not a legal description and cannot be used as a substitute for the files of the regional Mining Recorder.

Figure 5. Land tenure map (to June 1, 2004) of the Temagami lake sediment survey area showing the geochemically anomalous areas described in the report.

1. Caswell Lake Area (Lorrain and South Lorrain townships)

±Ag, ±Co, ±Cu, ±Fe; ±Cd, ±Cr, ±Mo, ±Mn, ±Ni, ±Pb, ±Pt, ±Zn ±Zr; ±Be, ±Li, ±Rb, ±Sr, ±Th, ±U; ±K, ±Na

sites: 2233, 2234, 2248, 2249, 2250, 2251

This multi-element, multi-site anomaly around Caswell Lake is situated at the contact of the Nipissing Diabase with the Lorrain Formation at the southern extent of the Timiskaming silver belt. The area overlies a contact between a quartz monzonite unit, a Nipissing Diabase sill and the Huronian Supergroup. It is characterized by anomalous values of Li, Rb and Sr reflecting the adjacent monzonite; Ag with minor Co, Ni and Cu are found in carbonate veins and vein systems which have a very close spatial relationship to the Nipissing Diabase. Occurrences and prospects for Ag, Co, and Cu are located within these sites (OGS 2002b). Exploration activity, currently being carried out by Cabo Mining Enterprises Corporation (2004) at the Lang–Caswell Prospect located just north of the lake sediment anomalies, confirmed the existence of Co and Ag mineralization hosted by numerous narrow calcite veins and breccias within the Nipissing diabase host rock. Site 2234 has very low LOI (23%), and may explain the elevated concentrations of Co, Cr, Cu, Fe, Mn, Pt, Th, Zr, and Zn; however, values for Ag are at background levels. Site 2251 is highly anomalous in Ag, As, Pb and Cd. The high concentrations of K and Na in lakes proximal to roads is due to road salt.

2. Silver Centre–Maiden's Lake Area (South Lorrain Township)

Ag, ±Co, ±Cr, ±Cu; ±As, ±Ni, ±Pb, ±Sn, ±Zn

sites: 2222, 2229, 2230, 2231, 2232, 2252 and 2254

This highly anomalous area is located east of the Montreal River over a contact between mafic metavolcanics and the Nipissing Diabase. All sites in this area are highly anomalous in Ag, with the highest concentrations of silver and arsenic of the survey (site 2230, 1.64 ppm Ag, 104 ppm As; site 2252, 5.50 ppm Ag, 397 ppm As; site 2254, 0.48 ppm Ag, 294 ppm As); and elevated in Co and Cu and background levels in Ni. Sites 2252 (Fourclaim Lake) and 2254 (Tooth Lake) are proximal to past producing mines and are highly anomalous in Ag, As, Co and Cr. Past producing mines include the Keeley, Frontier, and Wettlaufer mines, which are located between Tooth and Maiden lakes, where most of the silver ore was extracted from the Nipissing Diabase sill at its contact with underlying metavolcanic rocks (McIlwaine, 1970; OGS 2002b).

3. Hebert Township

±Ag, ±Co, ±Pt; ±Cu, ±Ni, ±Fe, ±Mn, ±Cr, ±Ti, ±V, ±Zn; ±As, ±S, ±REEs

sites: 1593, 1595, 1596, 1826, 1828, 1831, 1832, 1847

This anomalous area is centered around Cooper Lake on a foliated tonalite at the Grenville Front. The sediments are anomalous in Co, Ag and Pt. The Cooper–Beland Lake area also contains elevated Cu, Ni, Ti, V and Zn; and some sites have associated S and As. Site 1596 has one of the highest Ni values in the survey (40.4 ppm Ni). Several of these sites are characterized by high Fe and Mn, such as site 1831. Some of the sites overlying the tonalite have elevated REE signatures (sites 1593, 1596 and 1831). A small ultramafic unit on the southern border of South Lorrain Township has an occurrence of Ag, Au, Co, Cu and Ni (Huronian Belt); and Co and Pb (Cummingham occurrence, OGS 2002b).

4. Cassels Township

Co, Cr; Ti, V, ±Zn; ±Cd, ±Fe, ±Mn, ±Ni, ±Sc; ±As, ±Be, ±REEs

sites: 2294, 2297, 2298, 2358

This anomalous area is underlain by Huronian Supergroup rocks, and the lakes appear to line up along northwest-trending lineations. The sites are clustered around Blueberry Lake and tend to have anomalous values of Co and Cr. Most of the sites were also characterized by an anomalous REE signature, and elevated Ti and V.

5. Rib Lake Area (Gillies Limit South and Best townships)

±Ag, ±Cd, Cu, ±Pt, ±Pd, ±Mo, ±Zn, ±Zr; As, ±Ce, ±Cr, ±Li, ±Fe, ±Mn, ±REEs, ±Th, ±U

sites: 2869, 2894, 2896, 2974, 2975, 2976, 2990, 3105

This anomalous area returned some of the highest concentrations of Fe, S and Pd in this survey. It is elevated in Mo, U and Cu and is characterized by high REE concentrations. Site 2896 has very low LOI and may explain the elevated concentrations of Ag, Cu, Cr, Zr, Li, and REEs. Site 2976 has the highest concentration of S (30 700 ppm) and one of the highest values of Fe in the survey, as well as highly anomalous values of Cd, Cu, Mo and Zn. Northland Pyrites Mine (1906-1911) excavated iron from the pyrites of the Keewatin volcanics located at the south end of James Lake (Thomson 1968). Sites 2974 and 2975 have the highest concentration of Mo in the survey area (56.5 and 19.6 ppm Mo, respectively), and are elevated in Zn and Cu. The Guppy Molybdenite occurrence is located just south of these 2 sites. Sites 2869, 2903 and 2894 are anomalous in Pd and Pt and appear on northeast-trending lineations. A number of mineral occurrences of economic interest containing Au, Ag, Ni, Co, Cu, Mo, Pt, Pd and Zn have been identified in this area (OGS 2002b; Thomson 1968).

This anomalous area is located in a magnetic low, located along Highway 11 at the southern tip of Gillies Limit South Township at the point where it enters Best township. There is a large till deposit that covers the area to the west; however, the area to the east of Highway 11 is dominated by bedrock. The area is criss-crossed with lineations (northeast lineations along Rib Lake Creek and Petrault Lake Creek) readily identified in aeromagnetic surveys and is underlain by Keewatin volcanics and Algoman batholith intrusions (Thomson 1968). The site with the most anomalous elements, site 2869 is situated in a lake perched on the edge of the magnetic high. It overlies the contact between the Huronian Supergroup Lorrain Formation and the TGB. This anomalous area is underlain by the Lorrain Formation, Nipissing diabase, Archean mafic to intermediate metavolcanics and a massive granite to granodiorite intrusive.

6. Best Township

Pt, Co, ±Cr; ±Cu, ±Pb, ±Sb, ±Sc, ±Sn, ±V, ±Zr, ±Fe, ±Mn, ±Th, ±As, ±S

sites: 2913, 2914, 2915, 2916, 2917, 2918, 2919

This cluster of sites in Mountain and Best lakes area straddles the contact between the Algoman granitic batholith and the western arm of the Whitney Lake gabbro intrusion. All of the samples are anomalous in Pt and associated base metals including Cr and Co. Site 2916 (Best Lake) has elevated levels of As, Cu, Zr and Th. Sites 2916 and 2917 are also highly anomalous in Fe and Mn. These lakes are very deep and samples were taken from 6 to 24 m depth.

7. Brigstocke Township

Pd, Pt, ±Co; ±Cr, Cu; ±Mo, ±Sc, ±W, ±Zn, ±Zr, ±Fe, ±Mn; ±Rb, ±REEs, ±As

sites: 2935, 2936, 2940, 2943, 2948, 2951

These sites, anomalous in Pd, Pt and Co, are located in the Anima Nipissing Lake area of Banting–Brigstocke townships. Sediments were sampled at lake depths ranging from 17 to 31 m. Samples from Whitewater Lake tend to have lower organic content (% LOI) and anomalous concentrations of Fe and Mn. The lakes are situated at the contacts of granodiorite to granititic rocks with the Huronian Supergroup.

8. Banting Township

Pd, Pt, Co; ±Mo, ±Pb, ±Ti, ±Fe, ±Mn, ±As, S

sites: 3122, 3124, 3126, 3189, 3190

The sites around the Ladore and Tyndall lakes area overly a junction of several lithological units including the TGB, granodiorite to granitic rock and Nipissing Diabase intruding the Huronian Supergroup. These sites are anomalous in Pd and Pt and are elevated to anomalous in many base metals. Anomalous concentrations of As and S are found at some of these sites. Several of these lakes are situated along the Anima Nipissing River Deformation Zone (Smyk, Born and Owsiacki 1997) which trends northeast and bisects the township between Lundy Lake and Red Squirrel Lake.

9. Chambers Township

Ag, Co, Cr, Pd, REEs, Ti, V, Zn; Fe, Mn

site: 3221

This single-site anomaly at Chambers Lake is underlain by the Chamber–Strathy Batholith (Bennett 1978). The lake sediment is elevated in Pd, Ag, Co, Cr, REEs, Ti, V and Zn with an association of anomalous levels of Fe and Mn. The Blake mineral occurrence lies in the greenstone belt just south of the lake, and has showings of Au, Ag, Cu, Pb, Zn and S (OGS 2002b).

10. Strathy Township

Cu, ±Ni, ±Pd; ±Ag ±Cd, ±Co, ±Zn; ±S

Sites: 2890, 2986

Site 2986, located in Goward Lake, has the highest concentration of copper in the Temagami survey area (564 ppm Cu) and the second highest concentration of nickel (111 ppm Ni). The site is also associated with elevated levels of S, Pd, Ag, Cd and Zn. The lake is situated on the TGB at the center of a host of mineral occurrences that include Ag, Au, Cu, Pb, Zn, As, and S (OGS 2002b). Site 2890 is located over an Algoma granitic batholith and has elevated levels of Co, Cu, Ni and S.

11. Strathcona Township

Ag, Cd, Co; Cu, Ni, Sn, V, ±W, ±Zn; ±Fe, ±Mn; As, S, REEs

sites: 3283, 3284, 3286

This anomalous area is situated in quartz diabase gabbro of the Nipissing Diabase around the Herridge Lake area along Highway 11. The lake sediment from Herridge Lake (sites 3286 and 3283) is highly anomalous in Ag, Cd, Co, W, Zn, As and elevated in Cu, Ni, REEs, S and V. Herridge Lake is underlain by the Herridge Lake Fault (Bennett 1978) and cross-cut by an olivine diabase dike of the Sudbury swarm. The Iceland Granitic Lake Pluton is located at the west end of the lake and the Nipissing Diabase makes contact with the mafic to intermediate metavolcanic rocks to the northeast. The southwest end of the lake is in contact with the Gowganda Formation of the Huronian Supergroup. Site 3284 (small lake across Highway 11) shows elevated concentrations of Ag, Cd, Co, Sn, Fe, V and S. Several mineral occurrences occur in the greenstone belt adjacent to this anomaly with showings of Cu, Ni, Zn, Ag and Au (OGS 2002b).

12. Law Township

±Pd, ±Pt, ±Ag, ±Cu, ±Ni; ±Cd, ±Co, ±Cr, ±Pb, ±Sb, ±Sc, ±Sn, ±V, ±Zn; ±As, ±S, REEs.

sites: 3157, 3163, 3164, 3168, 3169, 2848, 3274, 3281, 3282, 3283, 3286, 3316, 3909

This anomalous area between Wilson and Jumping Caribou lakes is underlain by Nipissing Diabase, foliated gneisses and the Huronian Supergroup. It is anomalous to highly anomalous in Pd, Ag, Cd and elevated in Ni and Cu. One of the highest concentrations of silver for the study area is found in Ingall Lake (site 3169, 0.45 ppm Ag). This area is also elevated in base metals such as Pb, Sb, Sn and Zn and some sites show anomalous S and As. The Keith copper occurrence is located north of Wilson Lake (OGS 2002b).

13. Olive–Sisk townships

±Pd, ±Pt, ±Mo; ±Cu, ±Ni, ±Cr, ±Ti, ±Fe, ±Mn, ±U, ±Zr, ±S

sites: 1952, 1960, 1964, 1966, 1968, 1967, 1970, 1971, 3661

This area is located north of Marten River and straddles Highway 11 between Opeechee Boys Lake and Panet Lake. It is elevated in Pt and Pd with minimal association of base metals. Site 3661 is highly inorganic with anomalous Cr, Ni, Fe and Ti. Sites 1970 and 1971 exhibit high Mo, U and Zr levels. The area is primarily underlain by the migmatitic gneisses of the Grenville Province.

14. Flett–Angus townships

±Ag, ±Cr, ±Cu, ±Ni, ±Ti, ±Th, ±V, ±Zn; ±Cd, ±Co; ±Rb, ±REEs, ±S; ±Fe, ±Mn

sites: 3774, 3775, 3776, 3782, 3846, 3848, 3851, 3989, 3782,

The Fanny Lake (sites 3774, 3775, 3776, 3848, 3851) and Fall Lake (sites 3782 and 3846) sediments are anomalous in Cr, Cd, Co and elevated in Ti. The area is underlain by metamorphosed mafic intrusions. The Fall Lake site 3782, adjacent to the O'Connor (Fe-Ti-V) magnetite occurrence, is anomalous in Ag (0.17 ppb), Cu (62 ppm) and S. It is distinct from the remaining sites by the presence of Ag and Cu and is highly organic. The Fanny Lake sediments are all characterized by anomalous Cr and REEs, elevated Ti and the southern portion of the area has anomalous Co. Two of the sites (3848 and 3989) are also anomalous in Fe and Mn and adjacent to the Nichol iron occurrence. Site 3774, adjacent to the McDiarmid occurrence (Fe and Ti), is anomalous in Ni and Cr and elevated in Ti. Exploration for Ni-Cu-PGE mineralization and diamonds has recently been carried out in this area (Easton 2002).

15. McConnell Lake Moraine

Group A: Garrow–Osborne townships	Ag, ±REEs
sites: 4052, 4053, 4060, 4061, 4063, 4064	
Group B: Garrow–McAuslan townships	Co and Ag or Co and Cr; Fe, Mn, Th, REEs
sites: 1904, 1906, 1924, 1925, 1928, 1930, 4010, 4011, 4012, 4014, 4022, 4023	
Group C: Northeast McAuslan Township	Pd, ±Cr, ±Cu, ±As, ±S
sites: 3825, 3927, 3931, 3938, 3948, 3950, 3967	
Group D: McAuslan–Lasalle townships	Pd, Cd, S, ±Zr
sites: 1889, 3918, 3970, 3972, 3973, 3976	

A large anomaly of approximately 33 lakes located on the McConnell Lake Moraine can be subdivided into 4 clusters of lakes with geochemically distinct signatures. The clusters make a line along the axis of he moraine and are spread over the main body of the sandy gravel deposit and exposed underlying granitic gneiss and migmatitic rocks.

Group A lakes are located on the southwest edge of the moraine in an area of thin, discontinuous sediment cover over bedrock. Sampled depths are less than 7 m. The lake sediment is moderately low in organic composition (LOI ranges 35-53%) and is barren except for anomalously high values of Ag and REEs.

Group B lakes straddle bedrock and pockets of moraine sand and gravel. The lakes are characterized by some of the highest values of cobalt in the survey area. This group can be subdivided into lakes that contain Ag associated with the Co (sites 1904, 1906, 1924, 1925, 1928) and those which have no Ag but abundant Cr, Fe and Mn (sites 4010, 4011, 4012, 4014, 4022, 4023). Some of the highest Co and Fe values also occur within these lake sites. The low organic content of these lakes (LOI ranges 38-46%) and the high Fe and Mn suggest that reducing conditions are responsible for metal accumulation.

Group C lake sediments were collected from a series of kettle lakes and were identified by anomalous Pd values. They returned some of the highest values for Pd (site 3950, 5.8 ppb Pd; site 3927, 4.5 ppb Pd) and Cu (site 3938, 142 ppm Cu). The lakes in the area are very deep (site 3950, 30 m), with organic content ranges of 34 to 71% LOI.

Group D lakes lie along the central axis of the moraine lakes. Sampled depths range from 1 to 18 m and are characterized by highly anomalous values of Pt and Cd. There is a distinct association with S and As or both. The organic content ranges from 35 to 53%.

The water chemistry varies according to the location of the lakes: lakes proximal to bedrock and the organic deposits to the south are acidic; while kettle lakes and those within the moraine have high pH (~8) and high alkalinity values. Quarries are in operation just to the east of this area, extracting silica, quartzite, and building stone (OGS 2002b). The area around McConnell Lake Moraine is not available for staking due to aggregate permits and pending land protection under the Living Legacy program.

16. Stewart Township

Pd, Pt, Cd, Cu, Cr, Sn, Pb, Sb; As, Ba, Ce, REE

site: 4187

This single site anomaly is a pond at the southwest end of Moose Lake and yields anomalous concentrations of Pd and Pt as well as some base metals. The presence of a Ce-REE signature is characteristic of the felsic igneous rocks of the Grenville. The pond is located on the Mulock Granite pluton in the Tomiko Terrane of the Grenville Province.

17. Fell–McLaren townships

±Co, ±Cr, ±Cu; ±Ni, ±Ti, ±V, ±Zn; ±Fe, ±Mn; ±Be, ±REEs

sites: 2021 2022, 2023; 3682, 3693, 3694

This area is characterized by anomalously high levels of Co and Cu. The sites 3682, 2021, 2022 and 2023 (Rat Lake) exhibit copper anomalies, with no other elements in significant concentrations. The sediments were sampled at depths 12 to 14 m (except for the shallower ponds: sites 3682, 2022). Site 3693 (Tomiko Lake) and a pond to the east (site 3694) both show high levels of Co and Cr. The sediment in Tomiko Lake also contains anomalous concentrations of Ti, V, Zn, Be, REES, as well as, Fe and Mn. Note that the lake sediment in Tomiko Lake is highly inorganic (15% LOI).

18. Marten River area

±Pd, ±Pt; ±Co, ±Cr, ±Pb, ±Sb, ±V, ±Zn, ±Zr; REEs

sites: 1973, 1974, 1976, 1980, 3728, 3729

The area around Marten River, along the east side of Highway 11, is underlain by migmatitic gneisses and metaigneous rocks of the Grenville Province in Sisk Township. Each site has elevated levels of Pt and Pd with an association of 1 or 2 base metals. Site 1980 is more inorganic than the other sites and has anomalous concentrations of Co, Pb, Sb and REEs.

19. McCallum–Hobbs townships

Ag, Cu, ±Pd, ±Pt; ±Cd, ±Co, ±Cr, ±Ni, ±U; ±As, ±S

sites: 1739, 1740, 1741, 1742, 2138, 2140, 2176, 2178, 2179

This anomalous area overlies an olivine diabase dike of the Sudbury swarm hosted in migmatitic rocks of the Grenville Province. All of the sites are anomalous in Ag and almost all in Cu. Several sites are elevated in Pd and Pt and those in the northwest are elevated in U, S and As. Overburden in the form of outwash and esker sediments that trend south across Temagami Lake underlies the sites in the western part of the area: 1739, 1740, 1741, 1742, 2176 and 2178.

20. Vogt Township

Cu, Zn, ±Cr, ±Pd, ±Pt; ±Ag, ±Cd, ±Ni, ±Pb, ±Sc, ±Sn, ±Zn, ±As; ±Fe, ±Mn,

sites: 2376, 2433, 2527

The anomalous area makes a loop under the southwest arm of Temagami Lake following an arc of Nipissing Diabase into Pardo and Clement townships. This area sits on the Grenville Front at the junction of several rock types: metasedimentary rocks, foliated tonalite, metavolcanics and iron formation (Grant 1964). All sites are anomalous or elevated in Cu and Zn and most sites have high concentrations of Cr. The diabase crosses this junction close to many mineral occurrences including Au, Fe, Cu and graphite (Austin Bay); Au, Ag, Mo, and Cu (Malartic); and Cu (East Sunken Lake and Saville) (Grant 1964; OGS 2002b). Clem Lake (site 2376) is the only location showing anomalous Pd and Pt, along with Cr, Cu, Ni, Zn and has an associated Fe and Mn signature.

21. Dana Township/River Valley Intrusion

±Ag, Co, Cr, Cu, Fe, Ni, Sc, V, W, Zn, Zr; Be, Li, REEs

sites: 2097, 2098, 2099

This anomaly consists of a cluster of lakes located on the northern edge of the River Valley anorthosite intrusion centered at Pine Lake (sites 2097, 2098 and 2099). The anomalous lakes are underlain by the junction of several rock types: the River Valley intrusion consisting of gneissic rocks of gabbroic and leucogabbroic composition; the Hough Lake Group of the Huronian Supergroup; and the Archean ortho- and paragneiss country rock of the Pardo Gneiss (OGS 2002a, Easton 2003). The area is characterized by anomalous values of Co, Cr, Cu, Fe, W, Zr, Sc, Be, and elevated levels of Ni, Zn and V. Just south of this area, a major exploration project is being undertaken by Pacific North West Capital Corporation (2003) investigating the potential of platinum-palladium mineralization.

22. McNish Township

Pd, Pt; ±Cd, ±Co, ±Cu, ±Ni, ±Pb, ±Mo, ±REEs, ±Sb, ±Sn, ±V, ±Zn; ±Be, ±Fe, ±Mn

sites: 2383, 2387, 2388, 2390

This anomalous area is generally underlain by a Nipissing Diabase intrusion into the Huronian Supergroup (exposures to the west and east) with mafic and ultramafic rocks in the northwest corner of the township. All of the sites are anomalous or elevated in Pd and Pt. Only 2 of the sites (2383 and 2390) have anomalous signatures for the base metals Cd, Co, Cu, Ni, Mo and Zn. Site 2390 (Gamagowong Lake) is underlain by glaciofluvial outwash and was the only site to show elevated concentrations of Pb, Sb and Sn. Mineralization (Au, Ag, Cd, Co, Cu, Ni, Pb, and Zn) has been documented to the north in the mafic rocks (OGS 2002b). Site 2383 (McNish Lake) was the only site elevated in REEs, Sc, V and with a distinct Fe and Mn association. Mineralization of Cu, Ni, sulphides and U has been documented along Highway 805 (OGS 2002b).

23. McCarthy Township

±Pd, ±Pt, ±Co; ±Ag, ±Cd, ±Cu, ±Ni, ±Mo, ±Pb, ±REE, ±Sn, ±Ti, ±Zn; ±As, ±S; ±Fe, ±Mn

sites: 2459, 2464, 2402, 2405, 2407, 2408, 2411, 2412

This anomalous area is underlain by Nipissing Diabase dikes intruding the Gowganda Formation of the Cobalt Group. The area is anomalous in Pd, Pt and Co. Most sites are also anomalous in Cu, Ni and Cd. Sites 2411 and 2512 in the Triangle Lakes area (Kelly Township) are elevated in Ti and REEs with background levels of Co. Sites 2402, 2405, 2407 and 2408 in the Lower Matagamasi Lake–Stanley Lake area are also elevated in Ag, Mo, Pb, Sn, Zn, S and As. Sites 2405 and 2464 show an elevated Fe and Mn signature and were collected at depth (17 to 18 m). The Muskinonge occurrence (showings of Cu, Ni and platinum group metals; OGS 2002b) lies in the area of site 2405.

24. Clement Township

Pd, Pt, Cu; ±Ag, ±Cd, ±Cr, ±Co, ±Mo, ±Sc, ±V, ±Zn, ±W; ±Th, ±U, ±REEs, ±As, ±Fe, ±Mn

sites: 2437, 2439, 2507, 2537, 2552, 2553, 2589, 2590

Site 2552 overlies felsic to intermediate volcanic rocks and has elevated Pt and Cu concentrations. Several local occurrences (Onotsky, Huron Mountain) show Ag, Au, Pb, Zn, Cu, Fe, and garnet mineralization adjacent to this site (OGS 2002b). The remaining sites are located on the gabbro rocks of the Nipissing Diabase and are highly anomalous in Pd and Pt and anomalous in Cu. Site 2437 (North Silver Lake) and 2405 (Brightwater Lake) are the only sites anomalous in Ag, Cr, Mo, Th, U, REEs and associated high As concentrations.

25. Scholes Township

Cu, Ni, Co, ±Zn; ±Ag, ±Pd, ±Pt; ±Cd, ±Pb, ±Sb, ±Sn, ±Ti, ±W; ±REEs, ±As, ±S

sites: 2594, 3406, 3407, 3409, 3410, 3412, 3413, 3415, 3416, 3419, 3420

Windows of Precambrian metavolcanics and metasediments are exposed within the Nipissing Diabase gabbro between Emerald and Eaglerock lakes. Iron formation is exposed within the metavolcanics between the 2 northern tips of these lakes and is predominantly of the Algoma oxide facies-type that grades into a thin sulphide iron formation to the east in Strathy Township. Quartz-carbonate veins with gold in pyrite has been reported on the northern peninsula in Emerald Lake. This anomalous area is mostly underlain by Nipissing Diabase and is characterized by anomalous concentrations of Cu, Ni, Co and Zn with sporadic occurrences of Pd and Pt. Sites adjacent to the metavolcanics and overlying the Nipissing diabase gabbro also have anomalous concentrations of Ag (site 3420). Most sites have assemblages of anomalous base metal concentrations that vary from site to site, e.g., Pb, Sb and W. The area is overlain to the west by glaciofluvial outwash material. Mineral occurrences within the area of Cu, Ag, Au, Co, Fe; Pb, Zn, Cu, Au, Pb and Zn have showings mostly in the Nipissing Diabase (OGS 2002b).

26. Scholes–Phyllis townships

Pd, Pt, Cu, Ni, As; ±Ag, ±Cd, ±Co, ±REEs, ±Sn, ±Ti, ±Zn, ±V, ±W, ±S

sites: 3396, 3397, 3399, 3401, 3480, 3573, 3576

This area is predominantly underlain by Nipissing Diabase gabbro with a wedge of Gowganda Formation of the Cobalt Group (Huronian Supergroup) dominating the northeast corner of Scholes Township under Gull Lake. This site is anomalous and elevated in Pd and Pt and associated anomalous or highly elevated concentrations of Cu, Ni, Zn and As. The sediment samples from Gull Lake were taken at depth (site 3573, 37 m; site 3399, 30 m) and are highly inorganic compared to the other sites. These sites are also associated with various other base metals such as Sn, Ti, V, and W. Mineral occurrences in the Gull Lake area are mostly Fe, Cu, and sulphide showings (Meyn 1977; OGS 2002b).

27. Belfast Township

Cu, Ni; ±Pd, ±Pt, ±Cd, ±Co, ±Cr, ±REE, ±Ti, ±Zn, ±As, ±S, ±Fe, ±Mn

sites: 3466, 3477, 3545, 3554, 3555, 3556, 3548

This anomalous area, underlain by the contact between the gabbro of the Nipissing Diabase and the Gowganda Formation of the Cobalt Group (Huronian Supergroup), is characterized by anomalous Cu, Ni and Zn. Several sites on the Nipissing Diabase or close to the contact with the Huronian Supergroup are also anomalous or elevated in Pt and Pd (sites 3477 and 3548). Some of these sites are associated with anomalous concentrations of Cd, Co, Cr, Ti, As and S. Sites 3554 and 3555 on Allen Lake and site 3545 on Obabika Lake are highly anomalous in Fe and Mn. Copper and gold occurrences (Belfast and Obabika; OGS 2002b) are located between Red Bark (site 3477) and Allen lakes (sites 3554 and 3555).

28. Seagram–Acadia townships

±Pd, ±Pt, ±Ag, ±Cd, ±Co, ±Ni, ±Pb, ±Sc, ±Sn, ±V, ±Zn, ±Zr; ±Ba, ±REEs, ±As, ±S, ±Fe, ±Mn

sites: 2747, 2798, 2805

Pine Torch Lake area returned anomalous values of Pt, Pd, Ag, Cd, Co, Ni and V. Some sites were highly inorganic (sites 2798), and showed associated anomalies in Fe and Mn (sites 2798 and 2805). These sites overlie Huronian Supergroup rocks between slivers of Nipissing Diabase. Documented mineralization of occurrences of Cu (Lahay, Nasmith, Shannon occurrences), Au, Ag, Pb, and Zn (Delhi Pacific occurrences) are recorded to the east in Delhi Township on the local Nippising Diabase (OGS 2002b).

29. (Not shown on Figure 4) Huronian Supergroup lineations (Belfast, Canton, Cassels, Hebert, Kelly, Leroche, Shelburne, South Lorrain townships)

±Ag, Co, ±Cu, ±Cr, ±Fe; ±Th, ±Ba, ±As, REEs

sites: 946, 947, 948, 949, 950, 1691, 2268, 2294, 2296, 2297, 2318, 2319, 2320, 2321, 2664,

2665, 2667, 2674, 2688, 2689, 3534

Small clusters of anomalous sites overlying predominantly Huronian Supergroup lithologies were found to be correlated with lineations observed as magnetic highs in airborne total field magnetic data (OGS 1999, 2003b). These lineations include fault and/or shear zones as well as dikes of the Sudbury, Matachewan and the Grenville swarms (of the Grenville Front). Although a detailed examination of the sites showed that the clusters as a group had similar geochemical characteristics, there are significant differences between them. For example the cluster in Canton Township are all high in iron and elevated in arsenic; the cluster in South Lorrain Township is characterized by high Cr and Ba; yet almost all sites have elevated or high Co concentrations.

Summary and Conclusions

The large data set of the Temagami lake sediment survey enabled the use of statistics to identify distinct geochemical patterns over the various geological provinces using lake sediment geochemistry. The strong structural influences on bedrock topography (fault systems and shear zones) not only provide the controls on mineralization within the bedrock but the distribution of lakes and river systems of the area. It is not surprising, therefore, that anomalous areas are coincident with these fault and shear zones. However, not all faults carried mineralization according to lake sediment geochemistry.

The data from this geochemical data set suggests that the Timiskaming silver belt continues to extend in a swath from Silver Center (South Lorrain) to the southwest arm of Temagami Lake almost parallel to the Grenville Front. Elevated silver concentrations occur in a large cluster surrounding

Temagami Lake and the Temagami Greenstone Belt. Cobalt and arsenic are closely associated with the silver. However, unlike silver, they are also found in elevated concentrations with nickel and copper along lineations (faults and shear zones). Therefore, silver tends to be found associated with surface exposures of the Nipissing Diabase, whereas cobalt, arsenic, copper and nickel are observed in fault and shear zones in association with mafic metavolcanics and Huronian Supergroup metasediments.

Many of the anomalies of the Temagami lake sediment survey can be spatially correlated to lineations (over faults and dike swarms) and the Nipissing diabase sills and dikes. It is interesting to note that many "single site" anomalies are lined up along lineaments which are observed in an overlay of the total field magnetics geophysical data. Lakes with elevated nickel (and less so copper) appear to cluster line up in a northeast or northwest trend within the Huronian Supergroup. Anomalous nickel areas are also aligned along magnetic highs that appear as lineations. Previous studies have shown that mineralization comes to the surface through shear zones and fault zones at shallow contacts between the Huronian Supergroup and the Nipissing Diabase.

The Temagami survey area is so large that it would not be possible in this report to explain all the "single site" and "cluster" anomalies. Single site anomalies, distributed all throughout the survey area, are commonly found along lineations (determined in part by total magnetic field maps of the area). Those single site anomalies that cannot be identified with lineations or correlated to local changes in lithologies or other features are found in areas where the Huronian Supergroup is thin and the possibility is high for contact with Nipissing Diabase at shallow depths.

Bedrock geology was reflected in the geochemistry of lake sediments where mixed thick and discontinuous surficial material covered the bedrock. A unique pattern of anomalous elements was discerned in the lakes overlying gneisses of the Grenville which in turn are overlain by the McConnell Lake Moraine.

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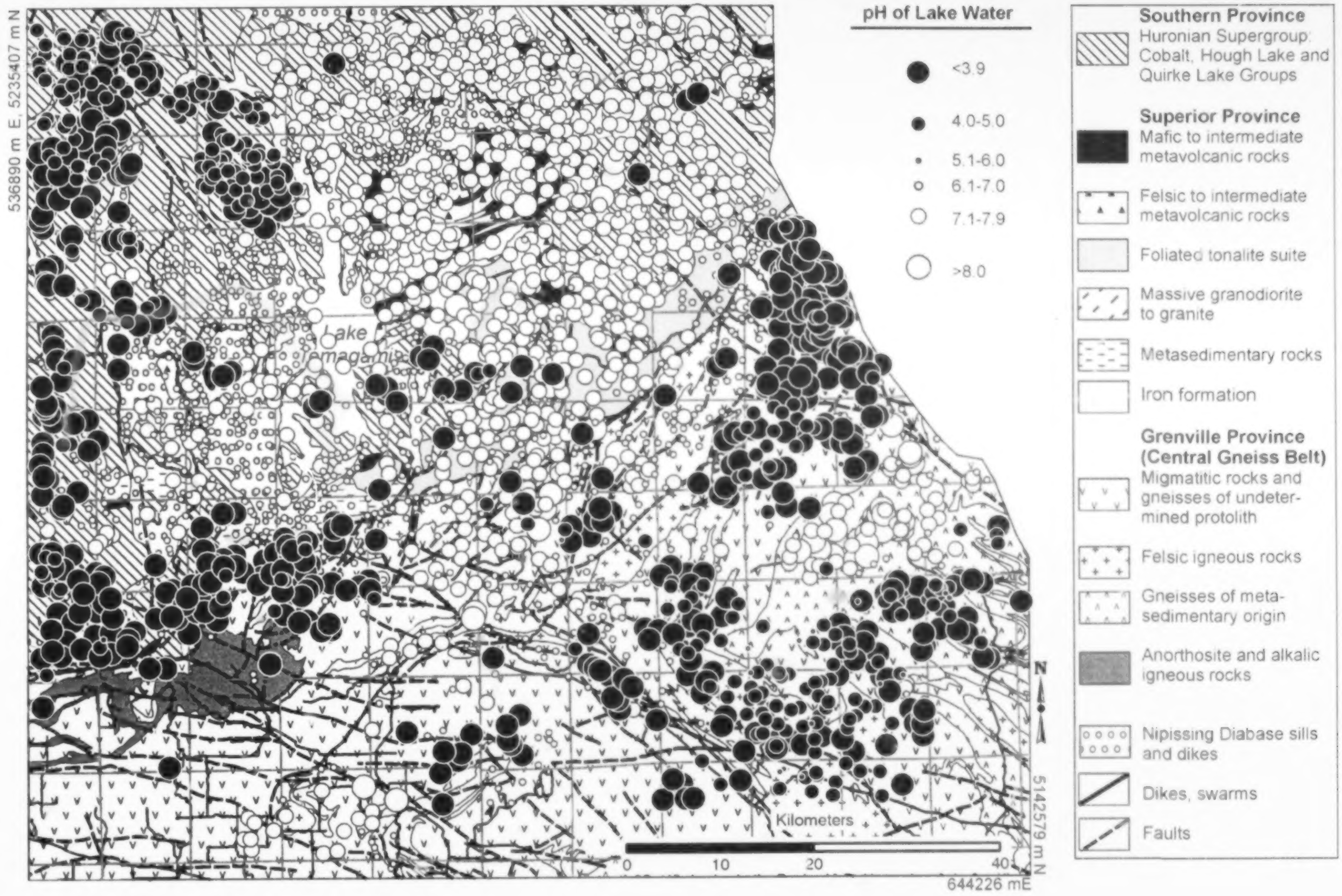
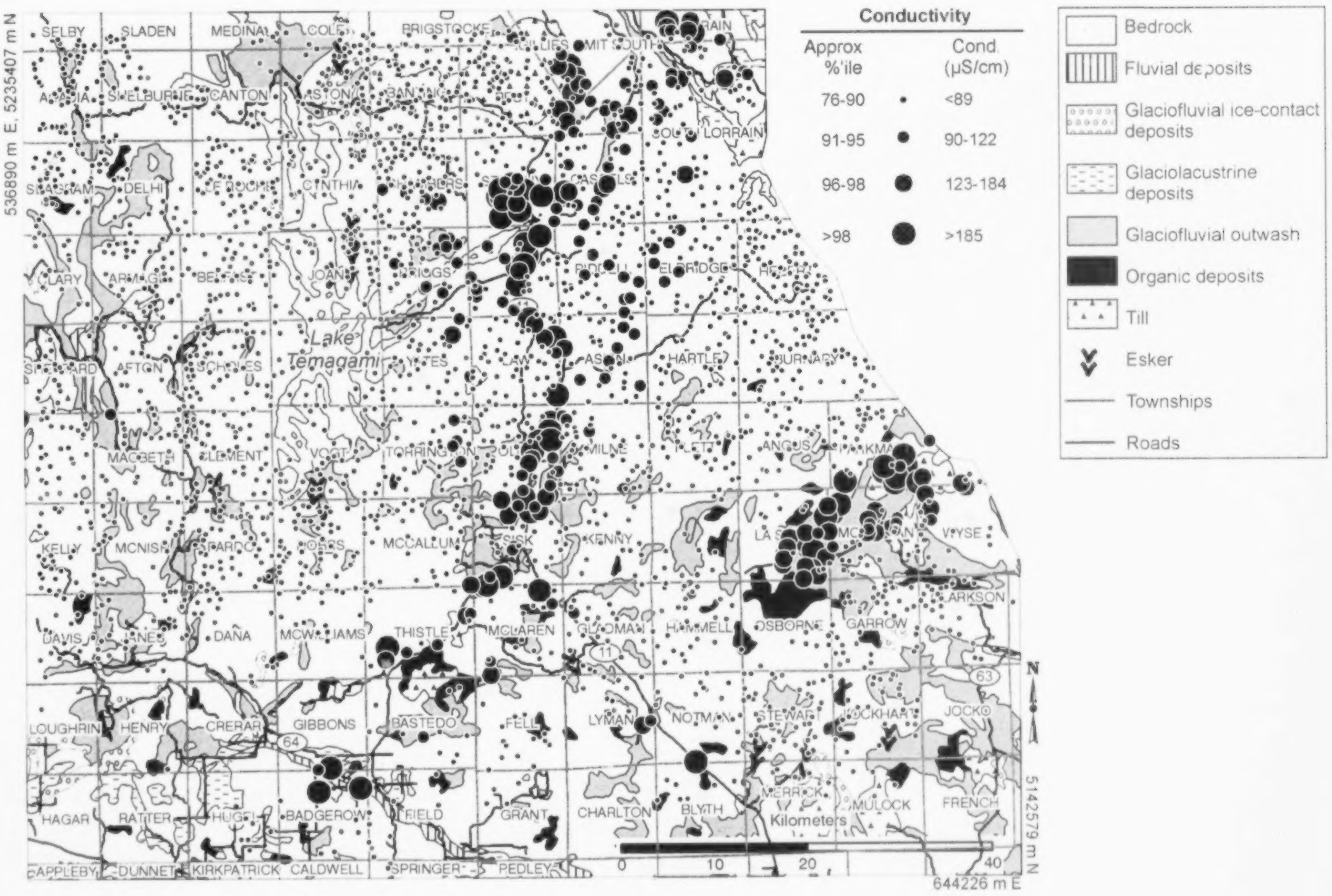
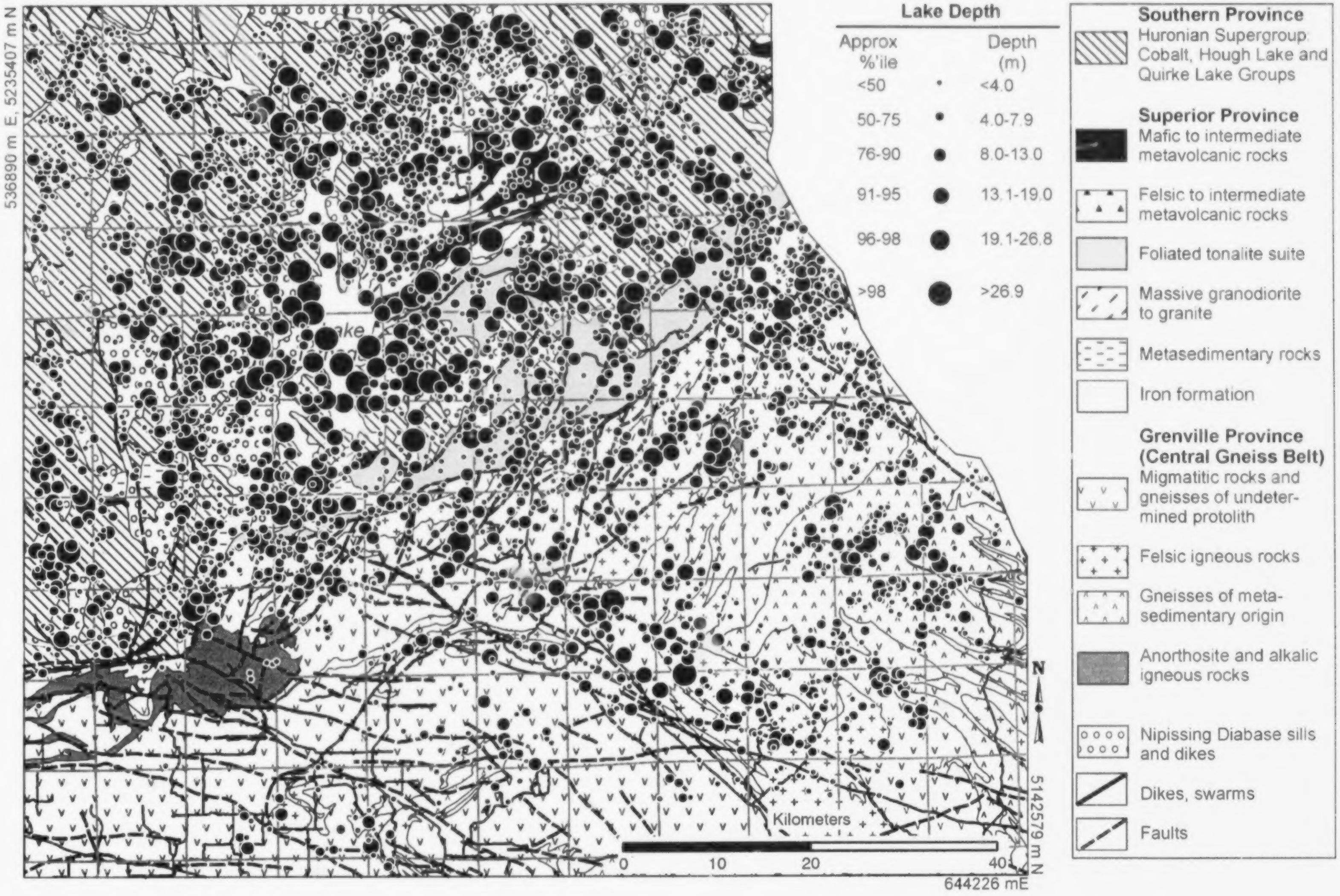
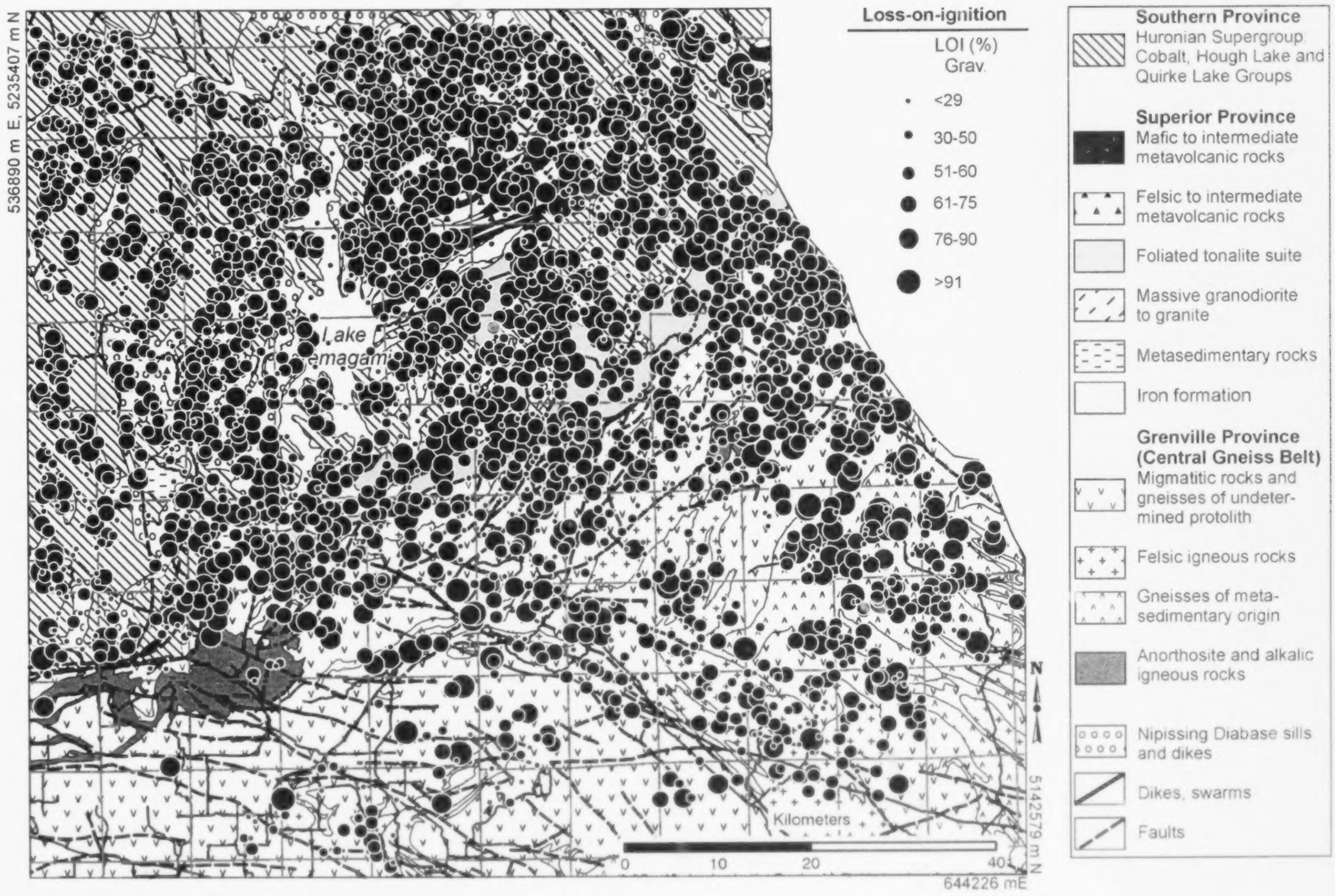
Appendix A

Proportional Dot Maps of Lake Water pH, Electrical Conductivity, Lake Depth and Sediment Loss-on-Ignition (LOI)


536890 m E, 5235407 m N
Lake Temagami
Kilometers
0
10
20
40
5142579 m N
644226 mE
N
pH of Lake Water
<3.9
4.0-5.0
5.1-6.0
6.1-7.0
7.1-7.9
>8.0
Southern Province
Huronian Supergroup: Cobalt, Hough Lake and Quirke Lake Groups
Superior Province
Mafic to intermediate metavolcanic rocks
Felsic to intermediate metavolcanic rocks
Foliated tonalite suite
Massive granodiorite to granite
Metasedimentary rocks
Iron formation
Grenville Province (Central Gneiss Belt)
Migmatitic rocks and gneisses of undetermined protolith
Felsic igneous rocks
Gneisses of metasedimentary origin
Anorthosite and alkalic igneous rocks
Nipissing Diabase sills and dikes
Dikes, swarms
Faults


Conductivity
Approx %'ile
Cond. (µS/cm)
76-90
<89
91-95
90-122
96-98
123-184
>98
>185
Bedrock
Fluvial deposits
Glaciofluvial ice-contact deposits
Glaciolacustrine deposits
Glaciofluvial outwash
Organic deposits
Till
Esker
Townships
Roads
N
536890 m E, 5235407 m N
5142579 m N
644226 m E
Kilometers
0
10
20
40
Lake Temagami
11
63
64
SELBY
SLADEN
MEDINA
COLE
BRIGSTOCKE
GILLIES
SOUTH LORRAIN
SHELBURNE
CANTON
BANNING
SEAGRAM
DELHI
CYNTHIA
CASSELS
CLARY
ARMAGH
BELFAST
JOAN
RIGGS
RIDDELL
ELDRIDGE
AFTON
SCHOLES
YATES
HARTLE
BURNARY
MACBETH
CLEMENT
VOGT
TORRINGTON
MILNE
ANGUS
KELLY
MCNISH
KENNY
MCCALLUM
SISK
VYSE
DAVIS
DANA
MCWILLIAMS
THISTLE
MCLAREN
GILLMOR
HAMMELL
OSBORNE
GARROW
CLARKSON
LOUGHRIN
HENRY
CRERAR
GIBBONS
BASTEDO
FELL
LYMAN
NOTMAN
STEWART
LOCKHART
JOCKO
HAGAR
RATTER
HUGEL
BADGEROW
FIELD
GRANT
CHARLTON
BLYTH
MERRICK
MULOCK
FRENCH
APPLEBY
DUNNET
KIRKPATRICK
CALDWELL
SPRINGER
PEDLEY


536890 m E, 5235407 m N
5142579 m N
644226 mE
N
Kilometers
0
10
20
40
Lake Depth
Approx %'ile
Depth (m)
<50 • <4.0
50-75 • 4.0-7.9
76-90 ● 8.0-13.0
91-95 ● 13.1-19.0
96-98 ● 19.1-26.8
>98 ● >26.9
Southern Province
Huronian Supergroup: Cobalt, Hough Lake and Quirke Lake Groups
Superior Province
Mafic to intermediate metavolcanic rocks
Felsic to intermediate metavolcanic rocks
Foliated tonalite suite
Massive granodiorite to granite
Metasedimentary rocks
Iron formation
Grenville Province (Central Gneiss Belt)
Migmatitic rocks and gneisses of undetermined protolith
Felsic igneous rocks
Gneisses of metasedimentary origin
Anorthosite and alkalic igneous rocks
Nipissing Diabase sills and dikes
Dikes, swarms
Faults


536890 m E, 5235407 m N
Lake Temagami
Kilometers
0
10
20
40
5142579 m N
644226 mE
N
Loss-on-ignition
LOI (%) Grav.
<29
30-50
51-60
61-75
76-90
>91
Southern Province
Huronian Supergroup: Cobalt, Hough Lake and Quirke Lake Groups
Superior Province
Mafic to intermediate metavolcanic rocks
Felsic to intermediate metavolcanic rocks
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Metasedimentary rocks
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Migmatitic rocks and gneisses of undetermined protolith
Felsic igneous rocks
Gneisses of metasedimentary origin
Anorthosite and alkalic igneous rocks
Nipissing Diabase sills and dikes
Dikes, swarms
Faults

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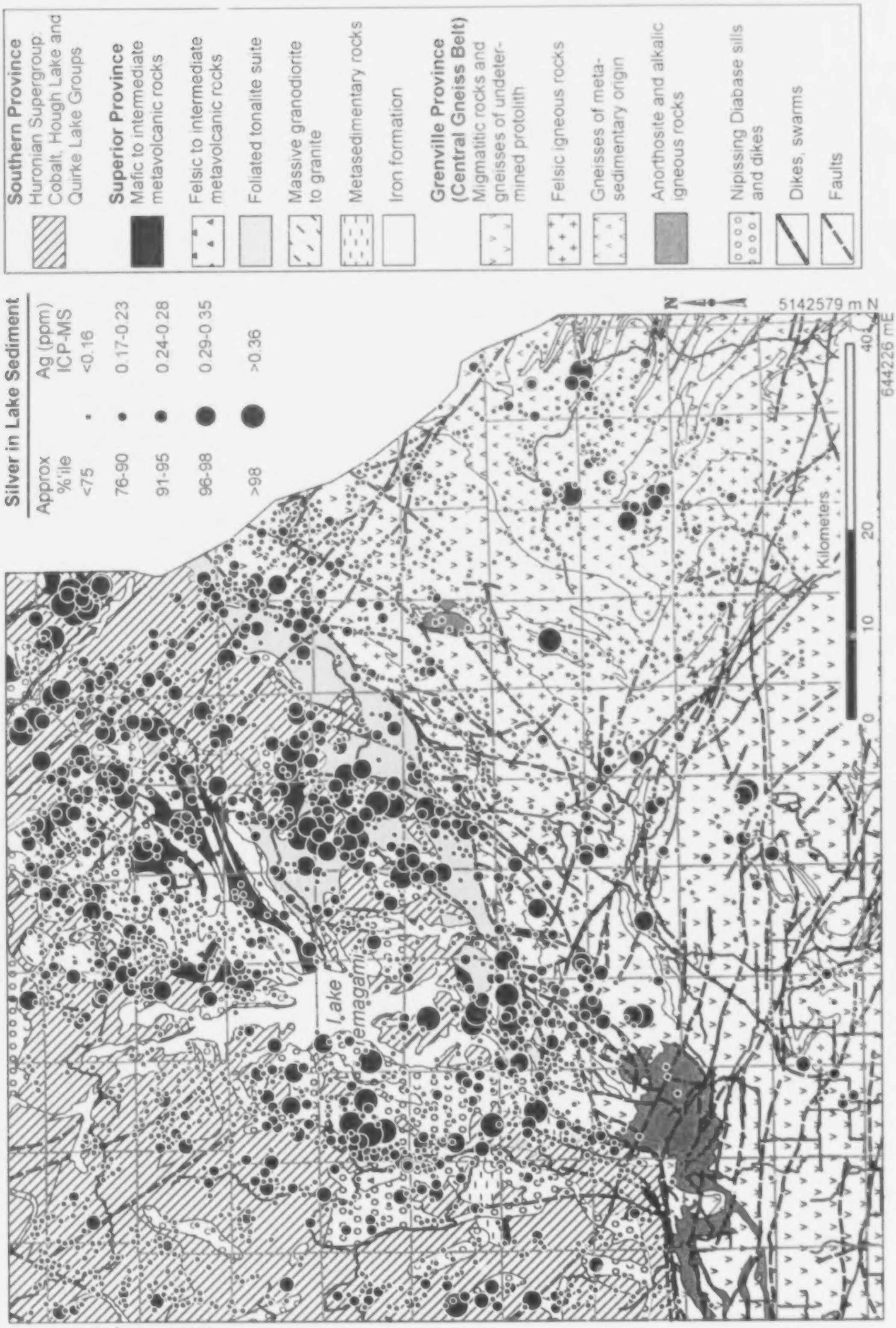
Appendix B

Proportional Dot Maps of Ag, Al, As, Ba, Be, Br, Ca, Cd, Ce, Co, Cr, Cs, Cu, Fe, K, Li, Mg, Mn, Mo, Na, Nb, Ni, P, Pb, Pd, Pt, Rb, Total REEs (La to Lu), S, Sb, Sc, Sn, Sr, Th, Ti, U, V, W, Zn and Zr in Lake Sediment


Silver in Lake Sediment
Approx %'ile
Ag (ppm) ICP-MS
<75
<0.16
76-90
0.17-0.23
91-95
0.24-0.28
96-98
0.29-0.35
>98
>0.36
Southern Province
Huronian Supergroup: Cobalt, Hough Lake and Quirke Lake Groups
Superior Province
Mafic to intermediate metavolcanic rocks
Felsic to intermediate metavolcanic rocks
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Metasedimentary rocks
Iron formation
Grenville Province (Central Gneiss Belt)
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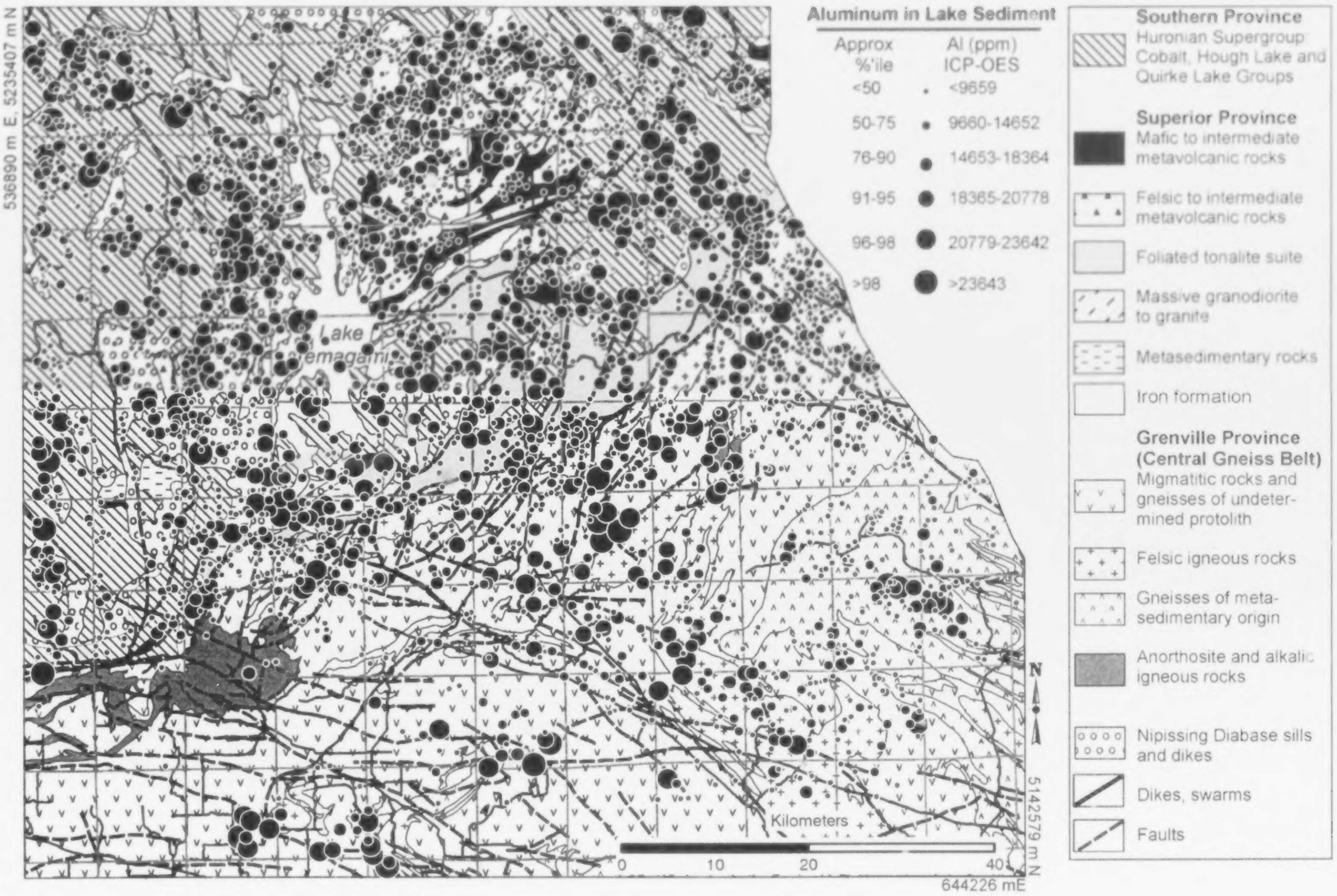
Anorthosite and alkalic igneous rocks
Nipissing Diabase sills and dikes
Dikes, swarms
Faults
Lake Temagami
N
5142579 m N
644226 mE
536890 m E, 5235407 m N
0
10
20
40
Kilometers


536890 m E, 5235407 m N
Lake Temagami
Aluminum in Lake Sediment
Approx %'ile
Al (ppm) ICP-OES
<50 • <9659
50-75 • 9660-14652
76-90 • 14653-18364
91-95 ● 18365-20778
96-98 ● 20779-23642
>98 ● >23643
Southern Province
Huronian Supergroup Cobalt, Hough Lake and Quirke Lake Groups
Superior Province
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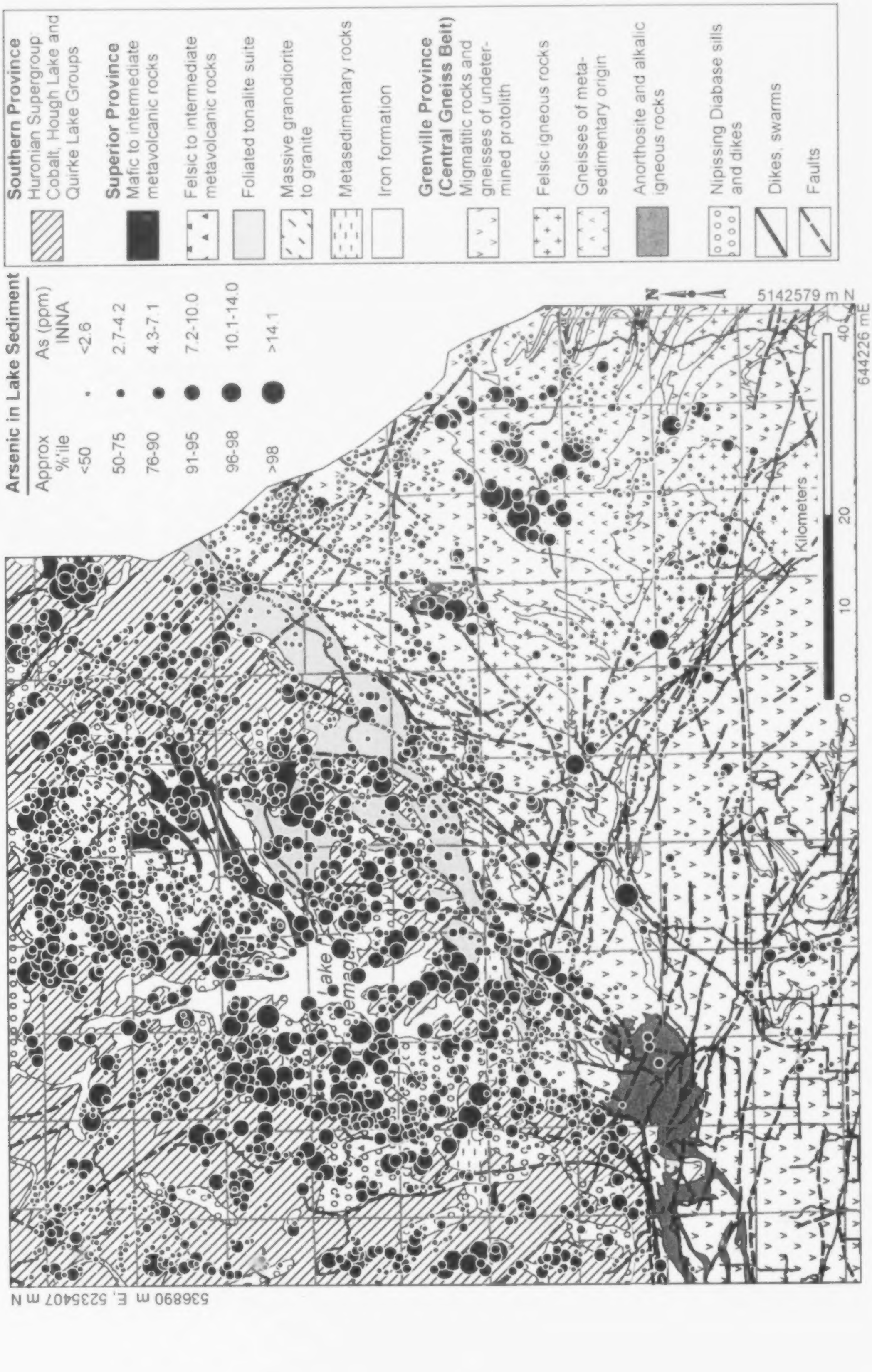
Nipissing Diabase sills and dikes
Dikes, swarms
Faults
N
Kilometers
0
10
20
40
5142579 m N
644226 mE


Arsenic in Lake Sediment
Approx %'ile
As (ppm) INNA
<50 <2.6
50-75 2.7-4.2
76-90 4.3-7.1
91-95 7.2-10.0
96-98 10.1-14.0
>98 >14.1
Southern Province
Huronian Supergroup: Cobalt, Hough Lake and Quirke Lake Groups
Superior Province
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Felsic to intermediate metavolcanic rocks
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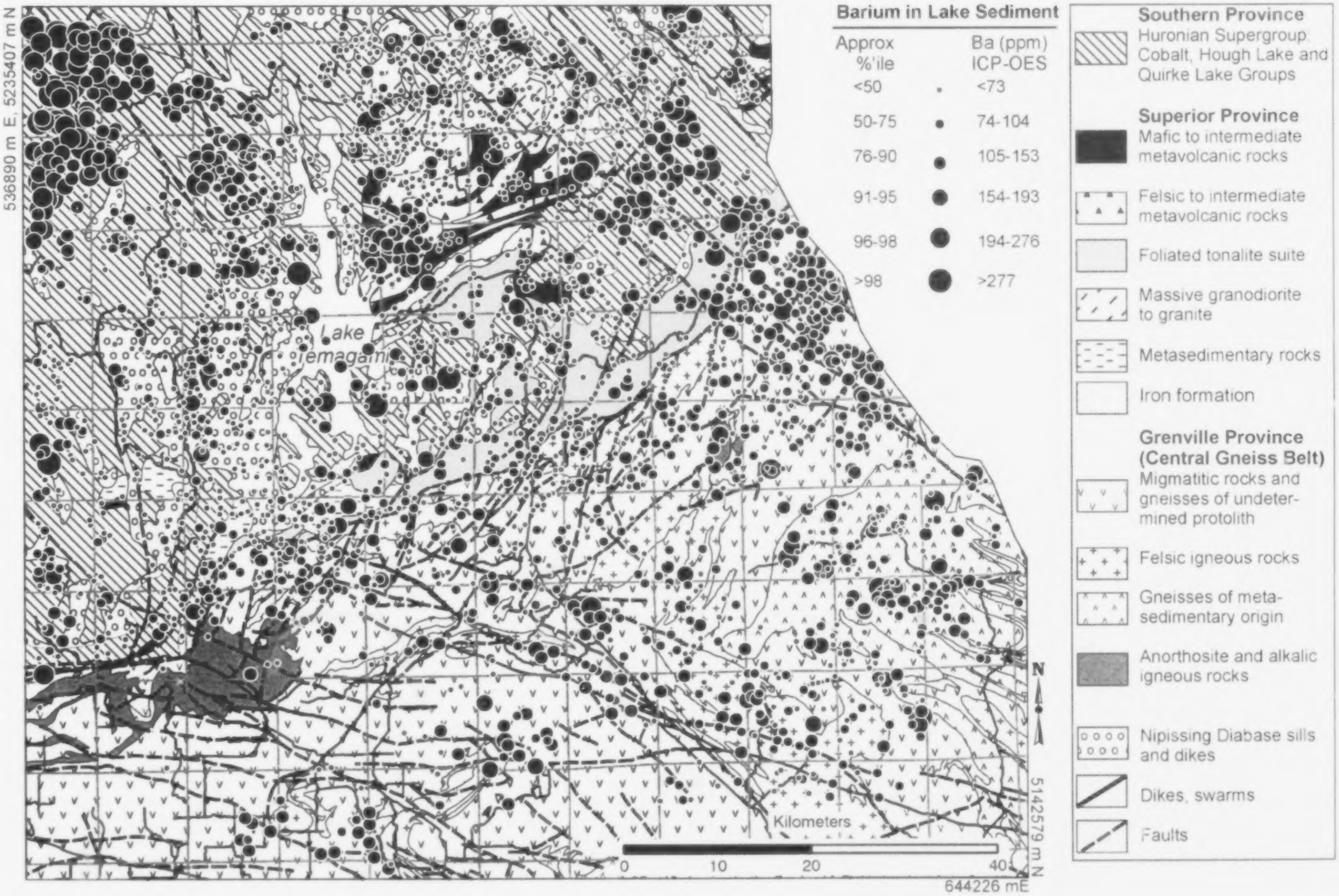
Gneisses of metasedimentary origin
Anorthosite and alkalic igneous rocks
Nipissing Diabase sills and dikes
Dikes, swarms
Faults
N
5142579 m N
644226 mE
536890 m E, 5235407 m N
Kilometers
0
10
20
40
Lake Temagami


536890 m E, 5235407 m N
Lake Temagami
Barium in Lake Sediment
Approx %'ile
Ba (ppm) ICP-OES
<50 • <73
50-75 • 74-104
76-90 • 105-153
91-95 • 154-193
96-98 • 194-276
>98 • >277
Southern Province
Huronian Supergroup: Cobalt, Hough Lake and Quirke Lake Groups
Superior Province
Mafic to intermediate metavolcanic rocks
Felsic to intermediate metavolcanic rocks
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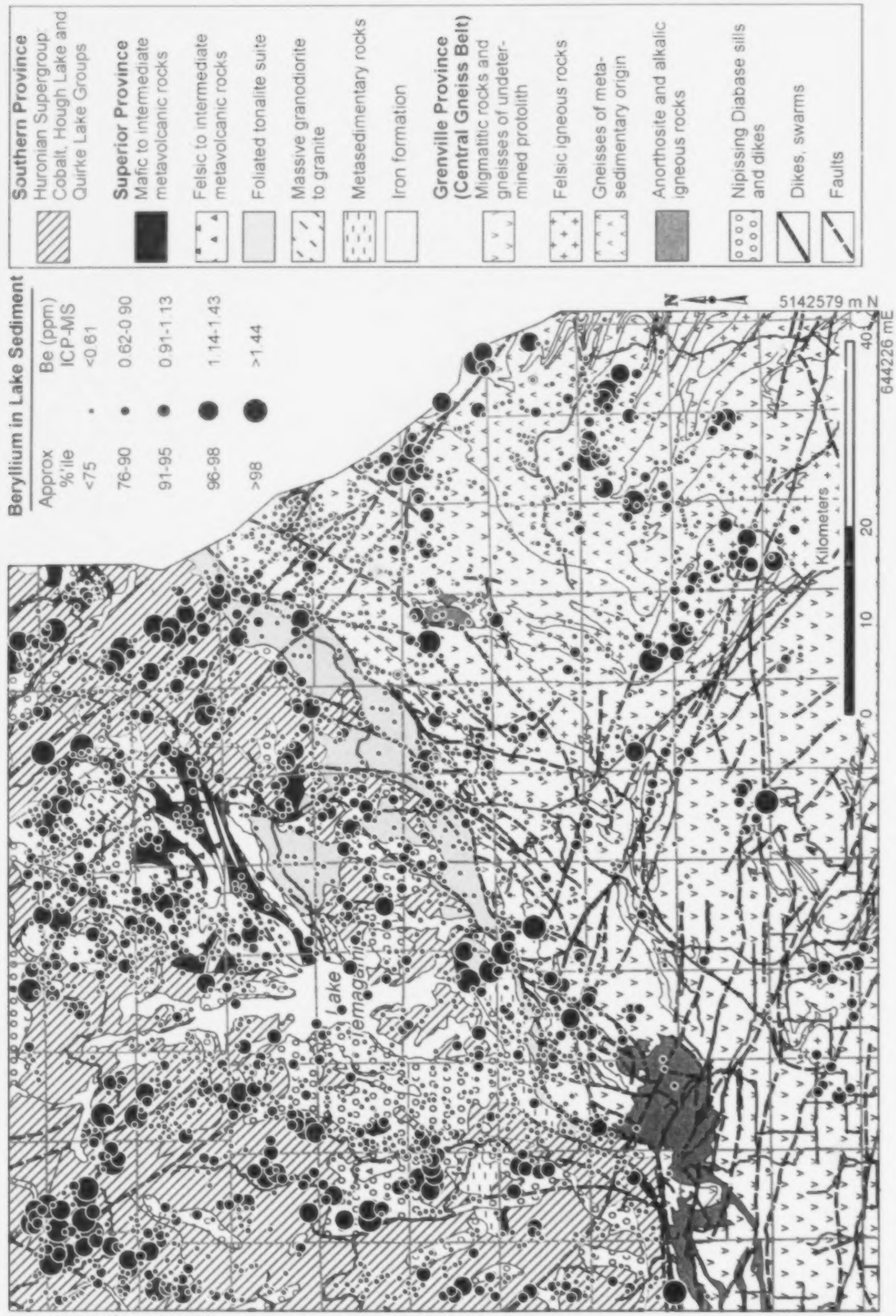
Nipissing Diabase sills and dikes
Dikes, swarms
Faults
N
Kilometers
0
10
20
40
5142579 m N
644226 mE


Beryllium in Lake Sediment
Approx %'ile
Be (ppm) ICP-MS
<75
<0.61
76-90
0.62-0.90
91-95
0.91-1.13
96-98
1.14-1.43
>98
>1.44
Southern Province
Huronian Supergroup Cobalt, Hough Lake and Quirke Lake Groups
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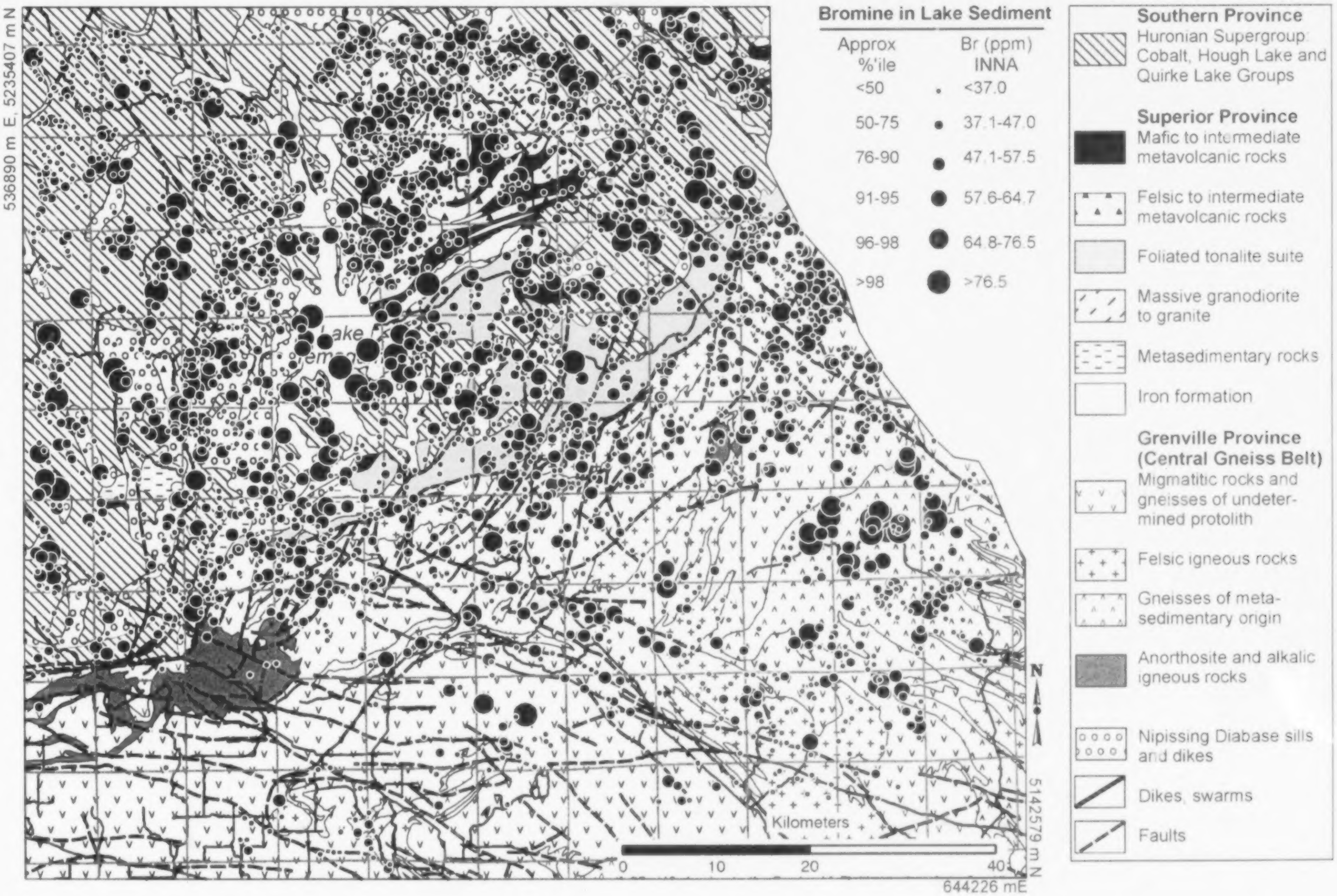
Nipissing Diabase sills and dikes
Dikes, swarms
Faults
Lake Temagami
N
5142579 m N
644226 mE
0
10
20
40
Kilometers
536890 m E, 5235407 m N


536890 m E, 5235407 m N
Lake
Bromine in Lake Sediment
Approx %'ile
Br (ppm) INNA
<50
<37.0
50-75
37.1-47.0
76-90
47.1-57.5
91-95
57.6-64.7
96-98
64.8-76.5
>98
>76.5
Southern Province
Huronian Supergroup: Cobalt, Hough Lake and Quirke Lake Groups
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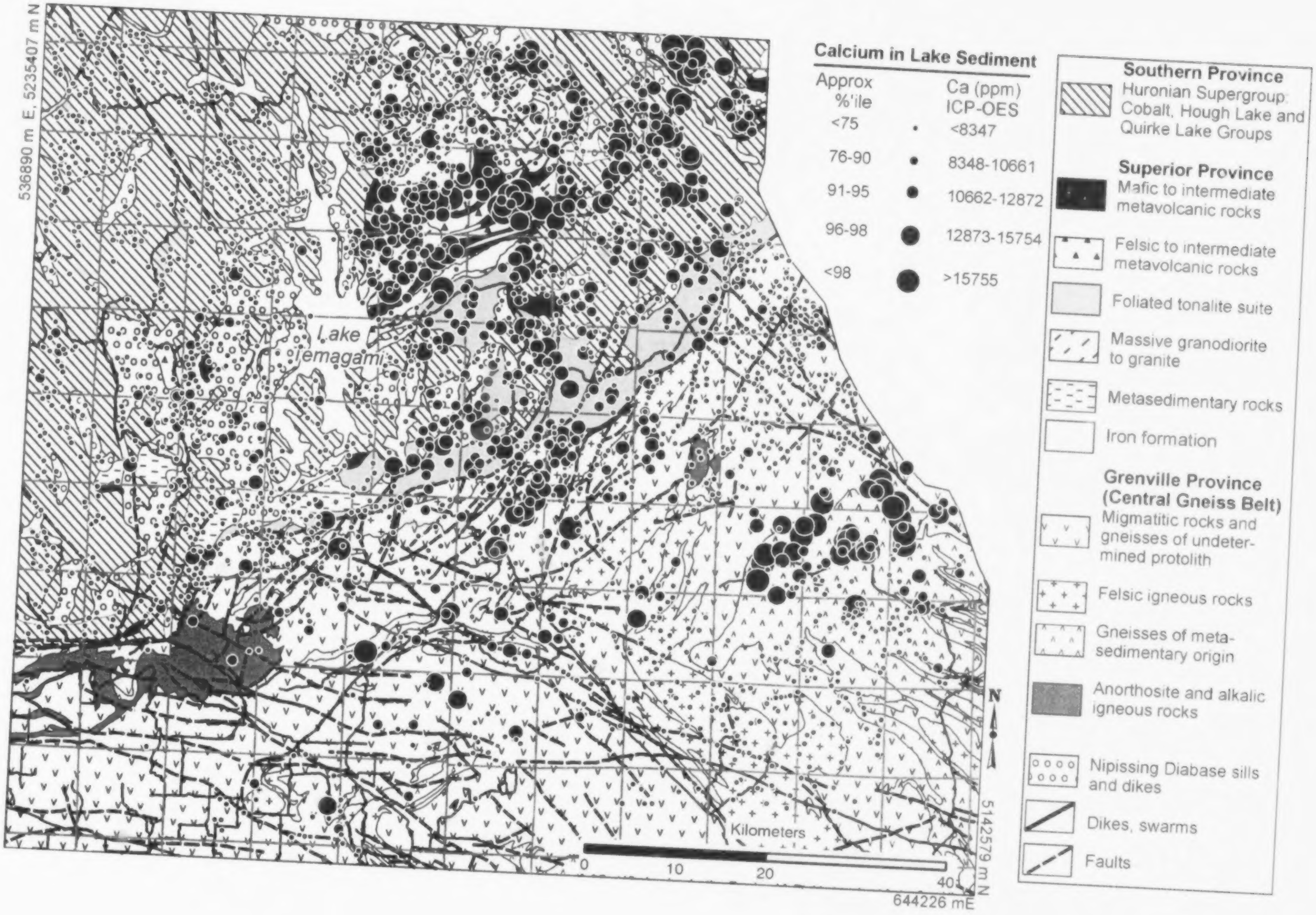
Nipissing Diabase sills and dikes
Dikes, swarms
Faults
N
Kilometers
0
10
20
40
5142579 m N
644226 mE



Calcium in Lake Sediment
Approx %'ile
Ca (ppm) ICP-OES
<75
<8347
76-90
8348-10661
91-95
10662-12872
96-98
12873-15754
<98
>15755
Southern Province
Huronian Supergroup: Cobalt, Hough Lake and Quirke Lake Groups
Superior Province
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Grenville Province (Central Gneiss Belt)
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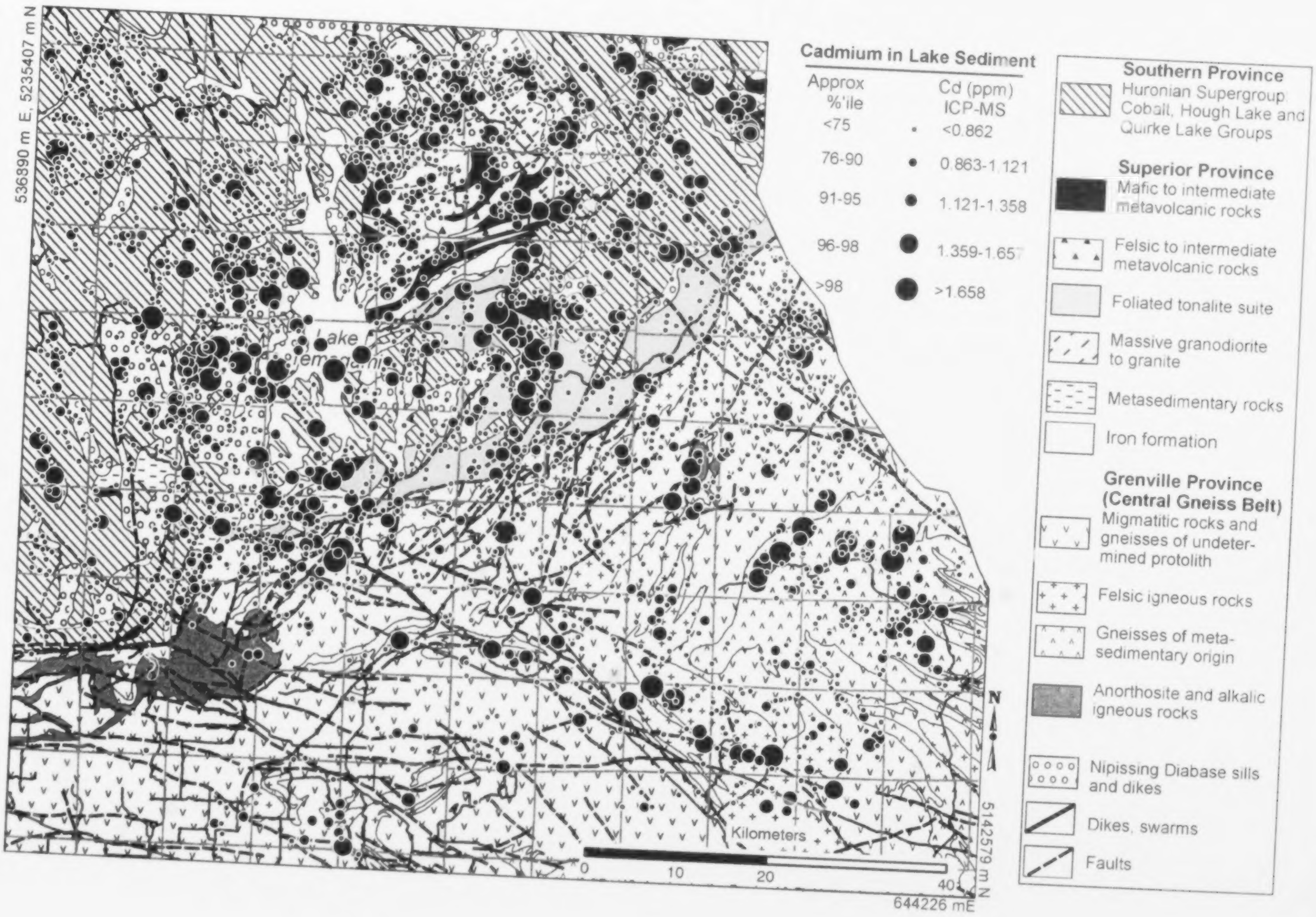
Felsic igneous rocks
Gneisses of metasedimentary origin
Anorthosite and alkalic igneous rocks
Nipissing Diabase sills and dikes
Dikes, swarms
Faults
Lake Temagami
536890 m E, 5235407 m N
5142579 m N
644226 mE
Kilometers
0
10
20
40
N


Cadmium in Lake Sediment
Approx %'ile
Cd (ppm) ICP-MS
<75
<0.862
76-90
0.863-1.121
91-95
1.121-1.358
96-98
1.359-1.657
>98
>1.658
Southern Province
Huronian Supergroup Cobalt, Hough Lake and Quirke Lake Groups
Superior Province
Mafic to intermediate metavolcanic rocks
Felsic to intermediate metavolcanic rocks
Foliated tonalite suite
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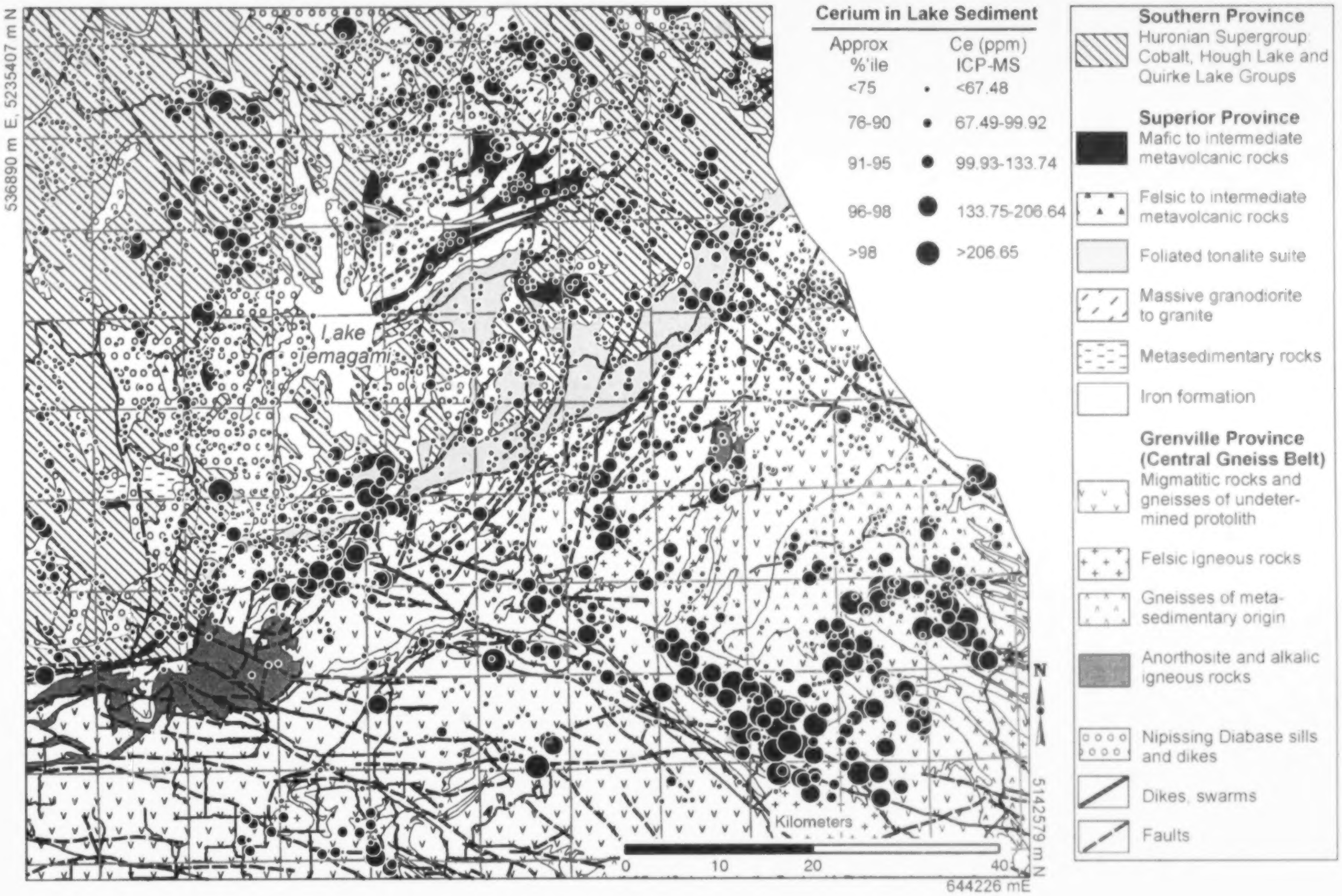
Dikes, swarms
Faults
Lake
N
536890 m E, 5235407 m N
5142579 m N
644226 mE
Kilometers
0
10
20
40


Cerium in Lake Sediment
Approx %'ile
Ce (ppm) ICP-MS
<75 • <67.48
76-90 • 67.49-99.92
91-95 ● 99.93-133.74
96-98 ● 133.75-206.64
>98 ● >206.65
Southern Province
Huronian Supergroup: Cobalt, Hough Lake and Quirke Lake Groups
Superior Province
Mafic to intermediate metavolcanic rocks
Felsic to intermediate metavolcanic rocks
Foliated tonalite suite
Massive granodiorite to granite
Metasedimentary rocks
Iron formation
Grenville Province (Central Gneiss Belt)
Migmatitic rocks and gneisses of undetermined protolith
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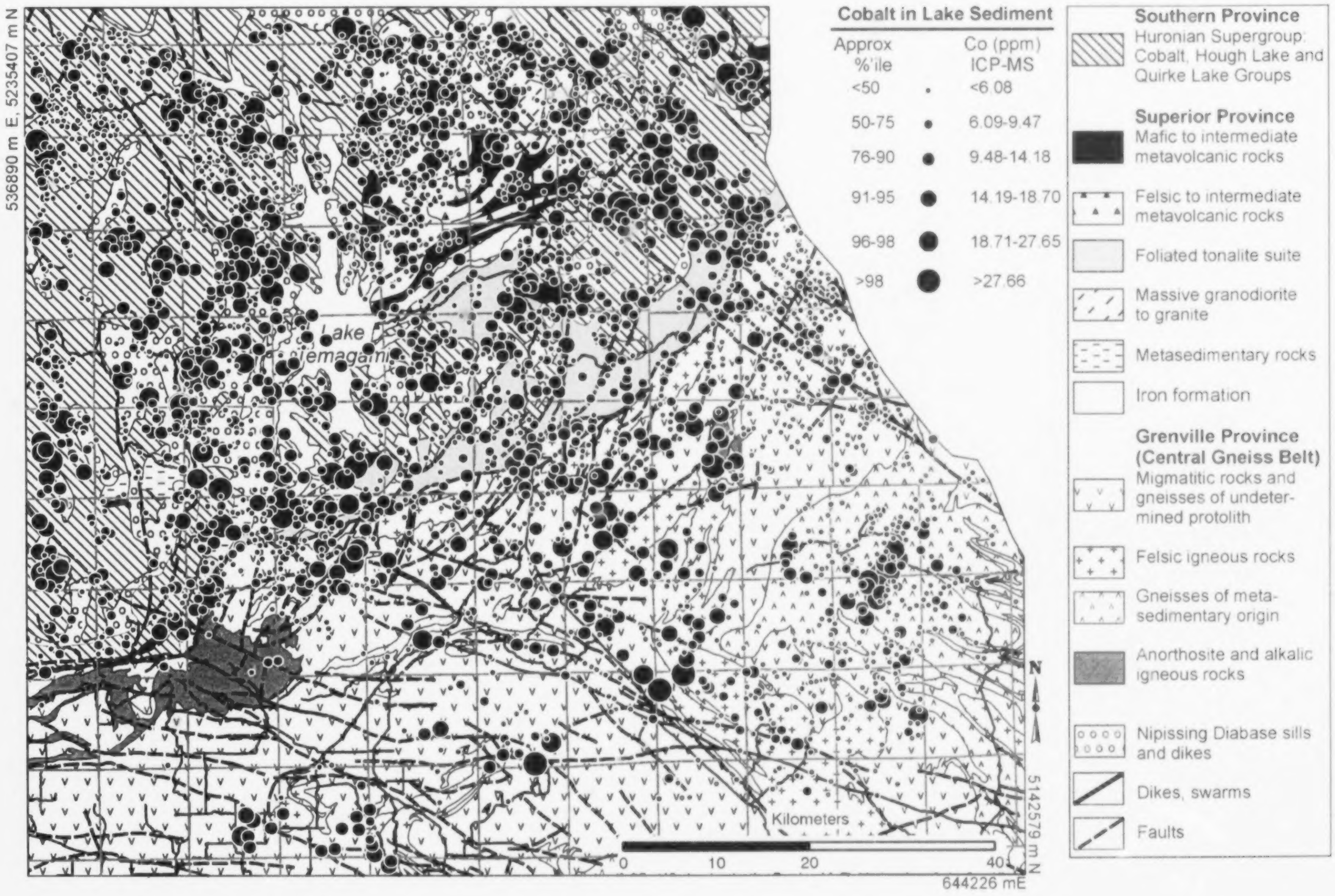
Nipissing Diabase sills and dikes
Dikes, swarms
Faults
Lake Temagami
536890 m E, 5235407 m N
5142579 m N
644226 mE
N
Kilometers
0
10
20
40


536890 m E, 5235407 m N
Lake Temagami
Cobalt in Lake Sediment
Approx %'ile
Co (ppm) ICP-MS
<50 <6.08
50-75 6.09-9.47
76-90 9.48-14.18
91-95 14.19-18.70
96-98 18.71-27.65
>98 >27.66
Southern Province
Huronian Supergroup: Cobalt, Hough Lake and Quirke Lake Groups
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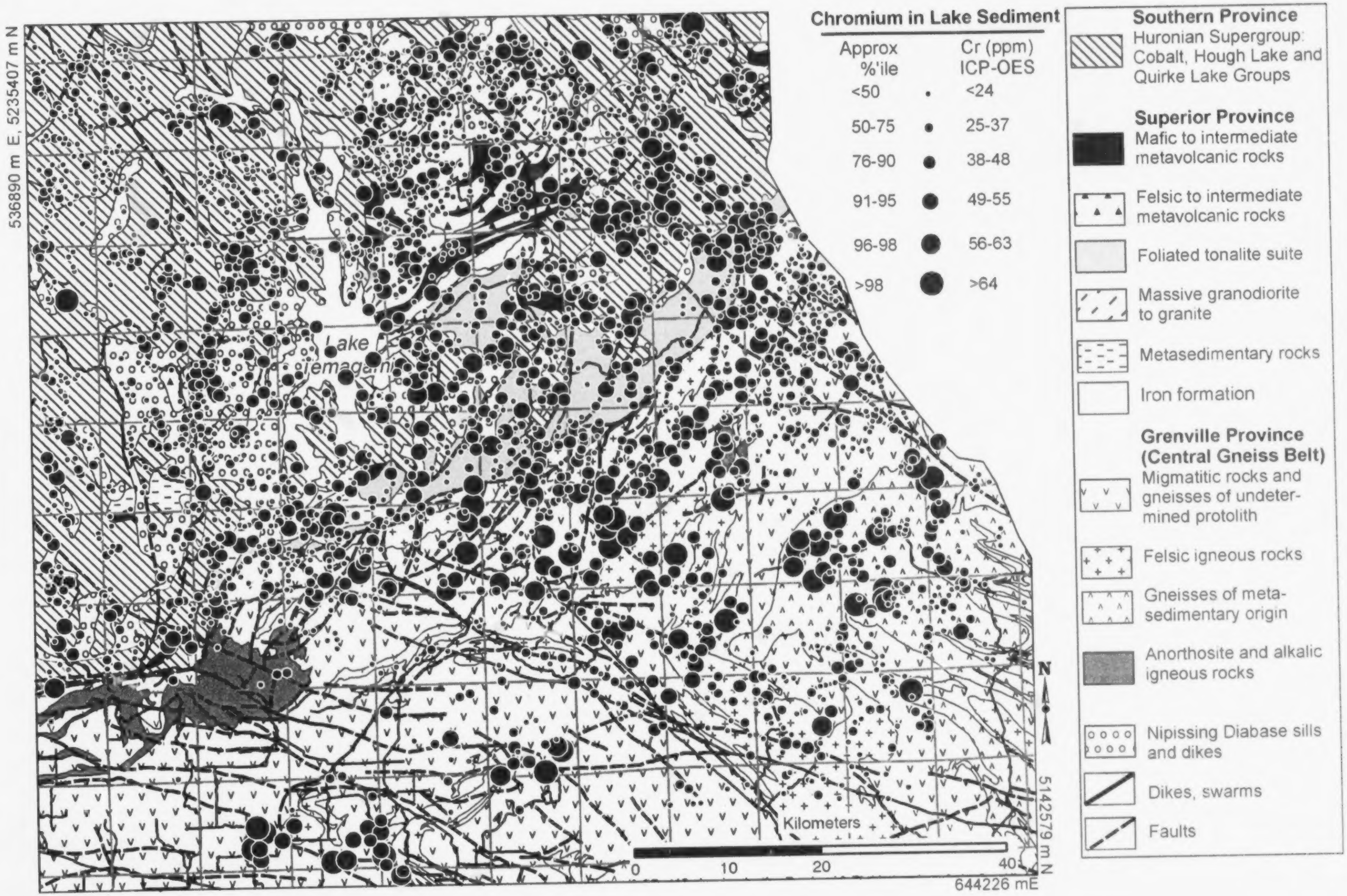
Gneisses of metasedimentary origin
Anorthosite and alkalic igneous rocks
Nipissing Diabase sills and dikes
Dikes, swarms
Faults
N
Kilometers
0
10
20
40
5142579 m N
644226 mE


536890 m E, 5235407 m N
Lake Temagami
Chromium in Lake Sediment
Approx %'ile
Cr (ppm) ICP-OES
<50 <24
50-75 25-37
76-90 38-48
91-95 49-55
96-98 56-63
>98 >64
Southern Province
Huronian Supergroup: Cobalt, Hough Lake and Quirke Lake Groups
Superior Province
Mafic to intermediate metavolcanic rocks
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Metasedimentary rocks
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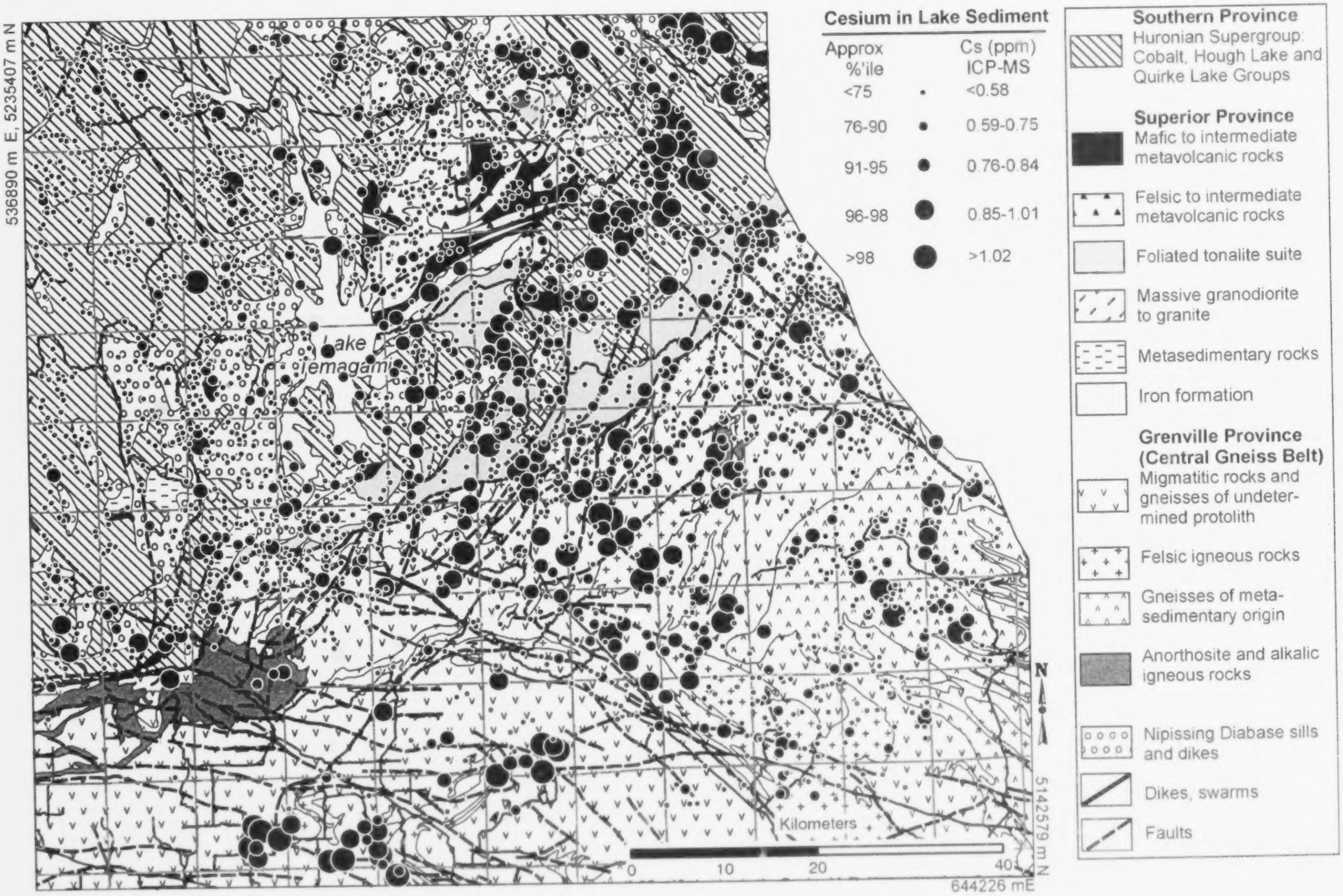
Gneisses of metasedimentary origin
Anorthosite and alkalic igneous rocks
Nipissing Diabase sills and dikes
Dikes, swarms
Faults
N
Kilometers
0
10
20
40
5142579 m N
644226 mE


536890 m E, 5235407 m N
Lake Temagami
Cesium in Lake Sediment
Approx %'ile
Cs (ppm) ICP-MS
<75 • <0.58
76-90 • 0.59-0.75
91-95 ● 0.76-0.84
96-98 ● 0.85-1.01
>98 ● >1.02
N
5142579 m N
644226 mE
Kilometers
0
10
20
40
Southern Province
Huronian Supergroup: Cobalt, Hough Lake and Quirke Lake Groups
Superior Province
Mafic to intermediate metavolcanic rocks
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Iron formation
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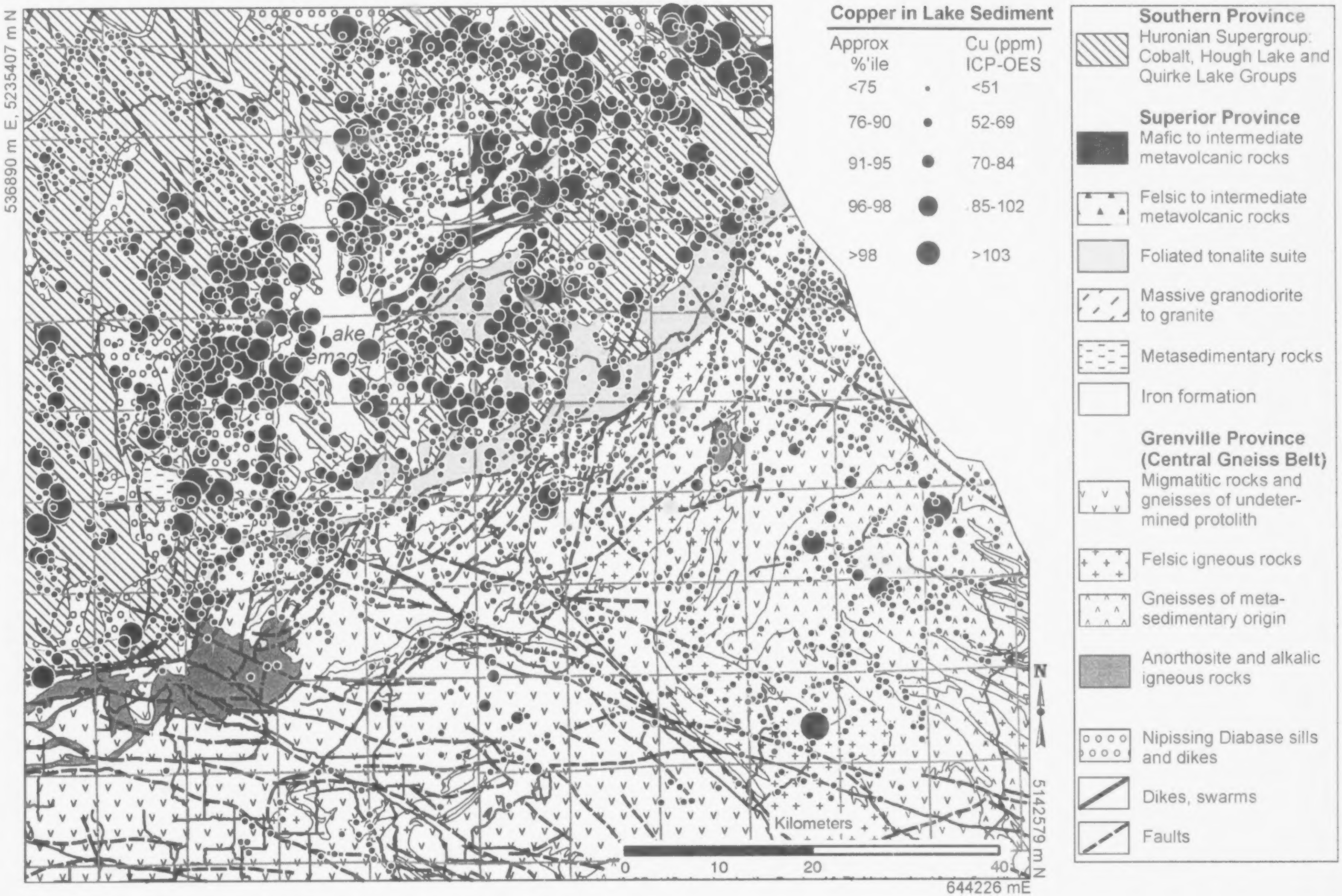
Nipissing Diabase sills and dikes
Dikes, swarms
Faults


536890 m E, 5235407 m N
Lake
Copper in Lake Sediment
Approx %'ile
Cu (ppm) ICP-OES
<75
<51
76-90
52-69
91-95
70-84
96-98
85-102
>98
>103
Southern Province
Huronian Supergroup: Cobalt, Hough Lake and Quirke Lake Groups
Superior Province
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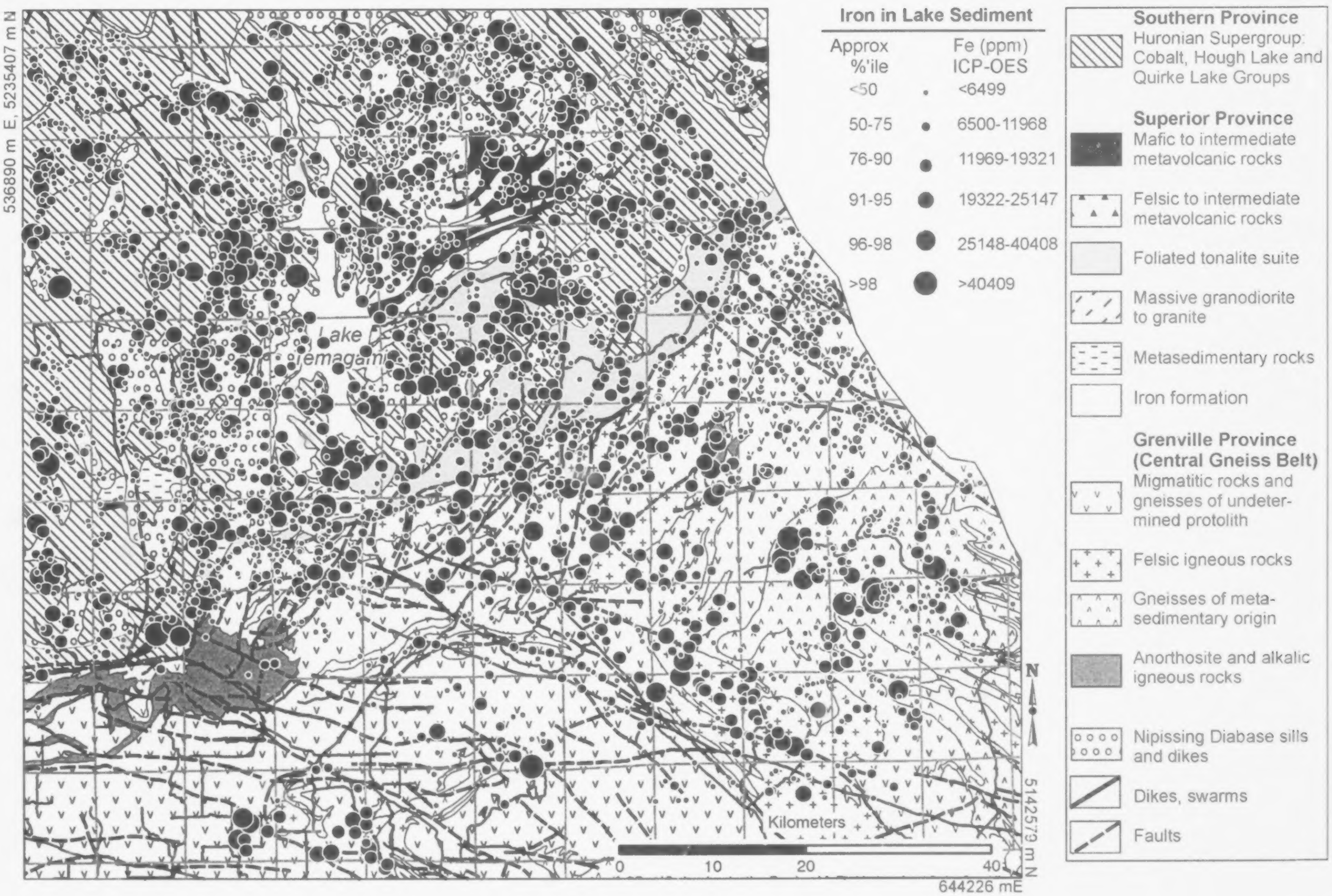
Nipissing Diabase sills and dikes
Dikes, swarms
Faults
N
Kilometers
0
10
20
40
5142579 m N
644226 mE


536890 m E, 5235407 m N
Lake Temagami
Kilometers
0
10
20
40
5142579 m N
644226 mE
N
Iron in Lake Sediment
Approx %'ile
Fe (ppm) ICP-OES
<50
<6499
50-75
6500-11968
76-90
11969-19321
91-95
19322-25147
96-98
25148-40408
>98
>40409
Southern Province
Huronian Supergroup: Cobalt, Hough Lake and Quirke Lake Groups
Superior Province
Mafic to intermediate metavolcanic rocks
Felsic to intermediate metavolcanic rocks
Foliated tonalite suite
Massive granodiorite to granite
Metasedimentary rocks
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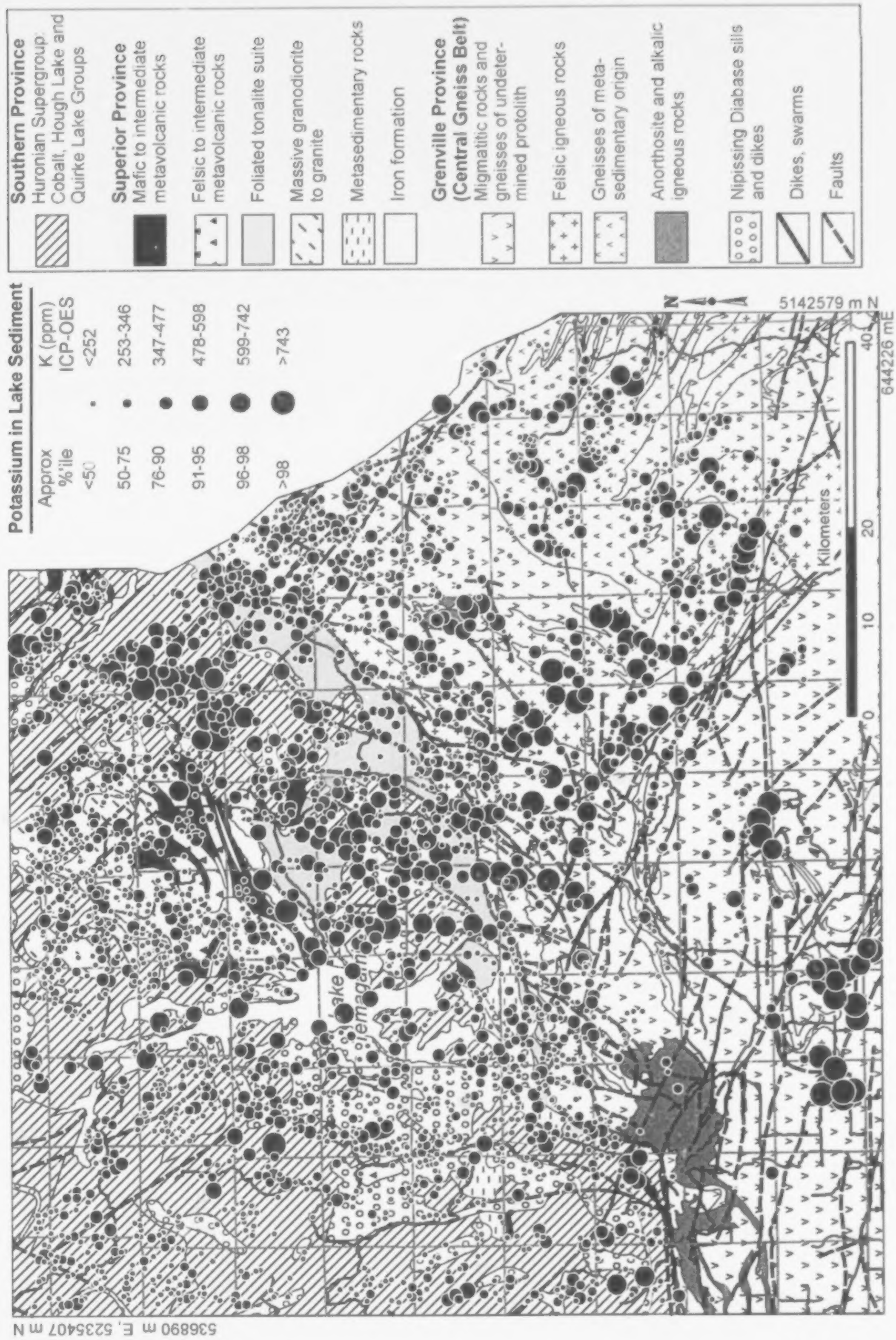
Grenville Province (Central Gneiss Belt)
Migmatitic rocks and gneisses of undetermined protolith
Felsic igneous rocks
Gneisses of metasedimentary origin
Anorthosite and alkalic igneous rocks
Nipissing Diabase sills and dikes
Dikes, swarms
Faults


Potassium in Lake Sediment
Approx %'ile
K (ppm) ICP-OES
<50 <252
50-75 253-346
76-90 347-477
91-95 478-598
96-98 599-742
>98 >743
Southern Province
Huronian Supergroup: Cobalt, Hough Lake and Quirke Lake Groups
Superior Province
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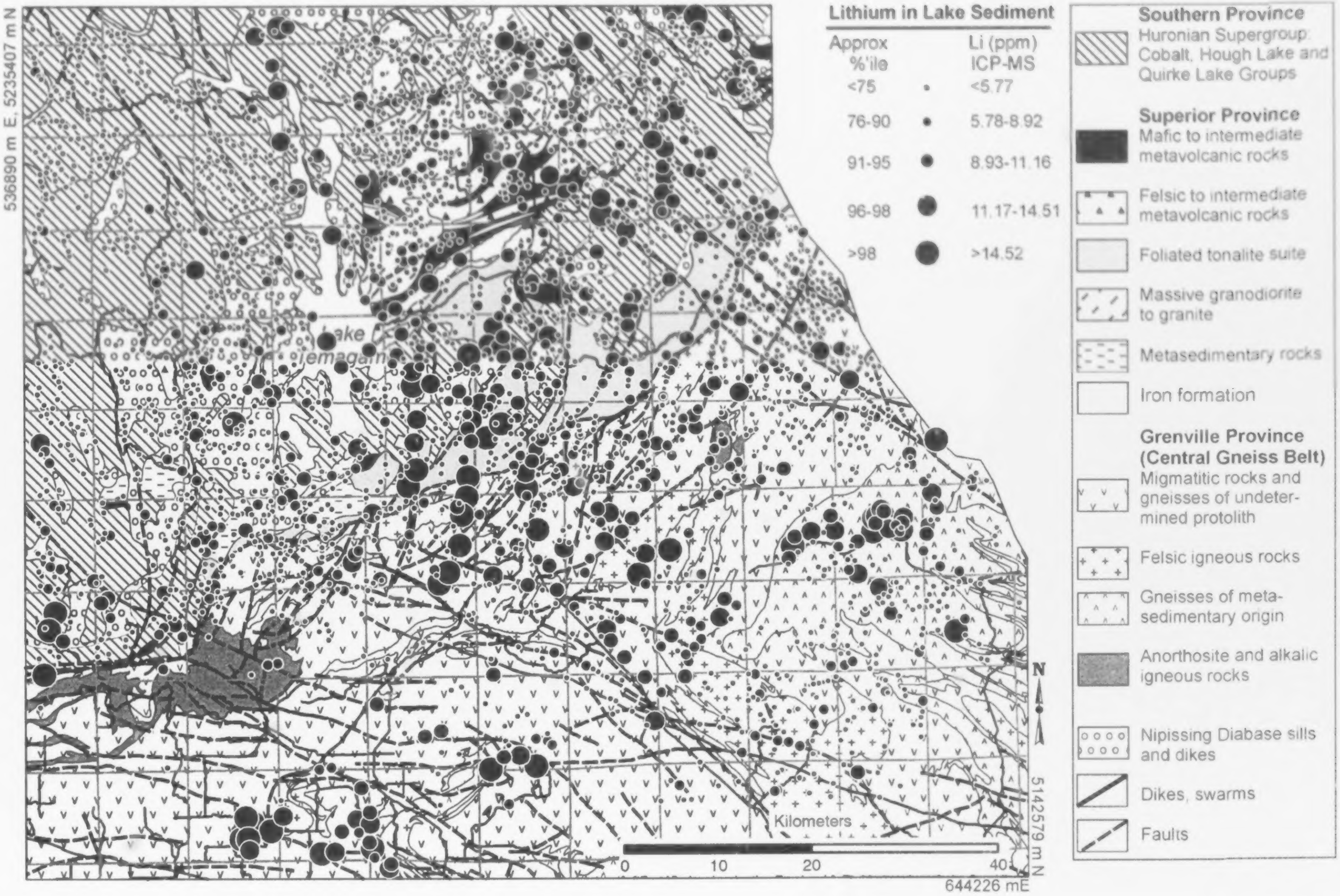
Faults
N
5142579 m N
644226 mE
Kilometers
0
10
20
40
536890 m E, 5235407 m N
Lake Temagami


Lithium in Lake Sediment
Approx %'ile
Li (ppm) ICP-MS
<75 ● <5.77
76-90 ● 5.78-8.92
91-95 ● 8.93-11.16
96-98 ● 11.17-14.51
>98 ● >14.52
Southern Province
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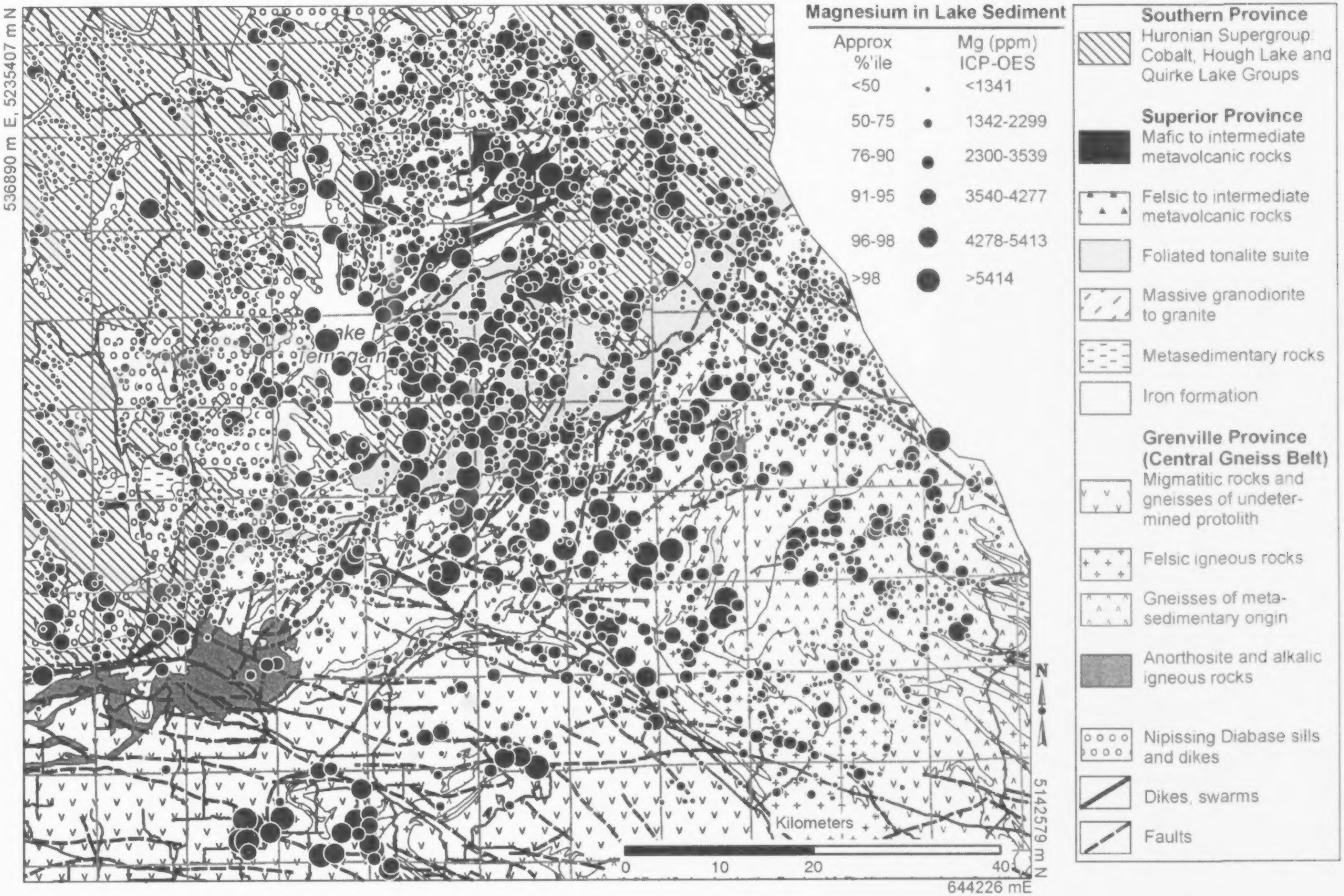
Faults
Lake Temagami
536890 m E, 5235407 m N
5142579 m N
644226 mE
N
Kilometers
0
10
20
40

Magnesium in Lake Sediment
Approx %'ile
Mg (ppm) ICP-OES
<50 <1341
50-75 1342-2299
76-90 2300-3539
91-95 3540-4277
96-98 4278-5413
>98 >5414
Southern Province
Huronian Supergroup: Cobalt, Hough Lake and Quirke Lake Groups
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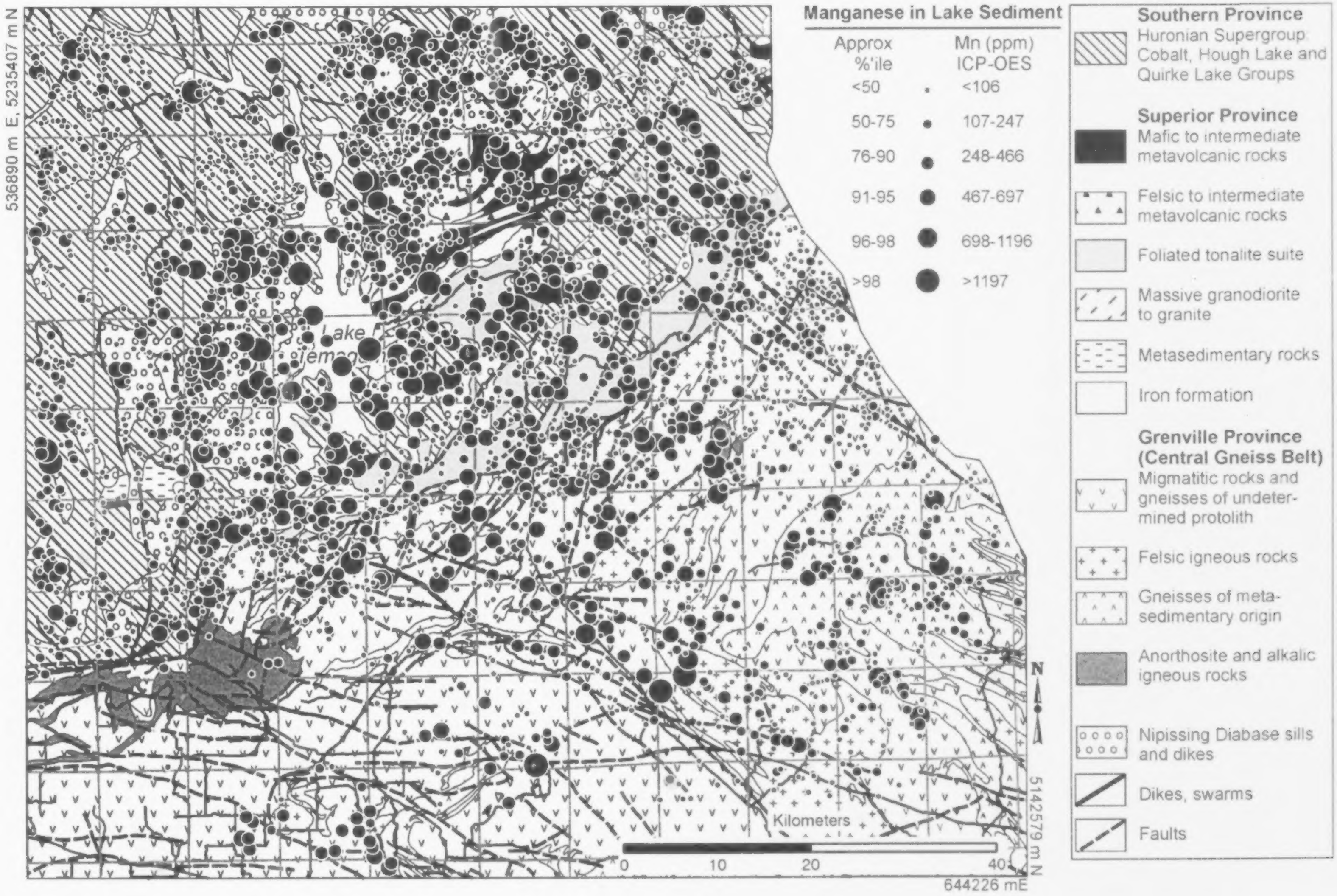
Faults
536890 m E, 5235407 m N
5142579 m N
644226 mE
N
Kilometers
0
10
20
40
Lake Temagami


536890 m E, 5235407 m N
Lake Temagami
Kilometers
0
10
20
40
5142579 m N
644226 mE
N
Manganese in Lake Sediment
Approx %'ile
Mn (ppm) ICP-OES
<50 • <106
50-75 • 107-247
76-90 ● 248-466
91-95 ● 467-697
96-98 ● 698-1196
>98 ● >1197
Southern Province
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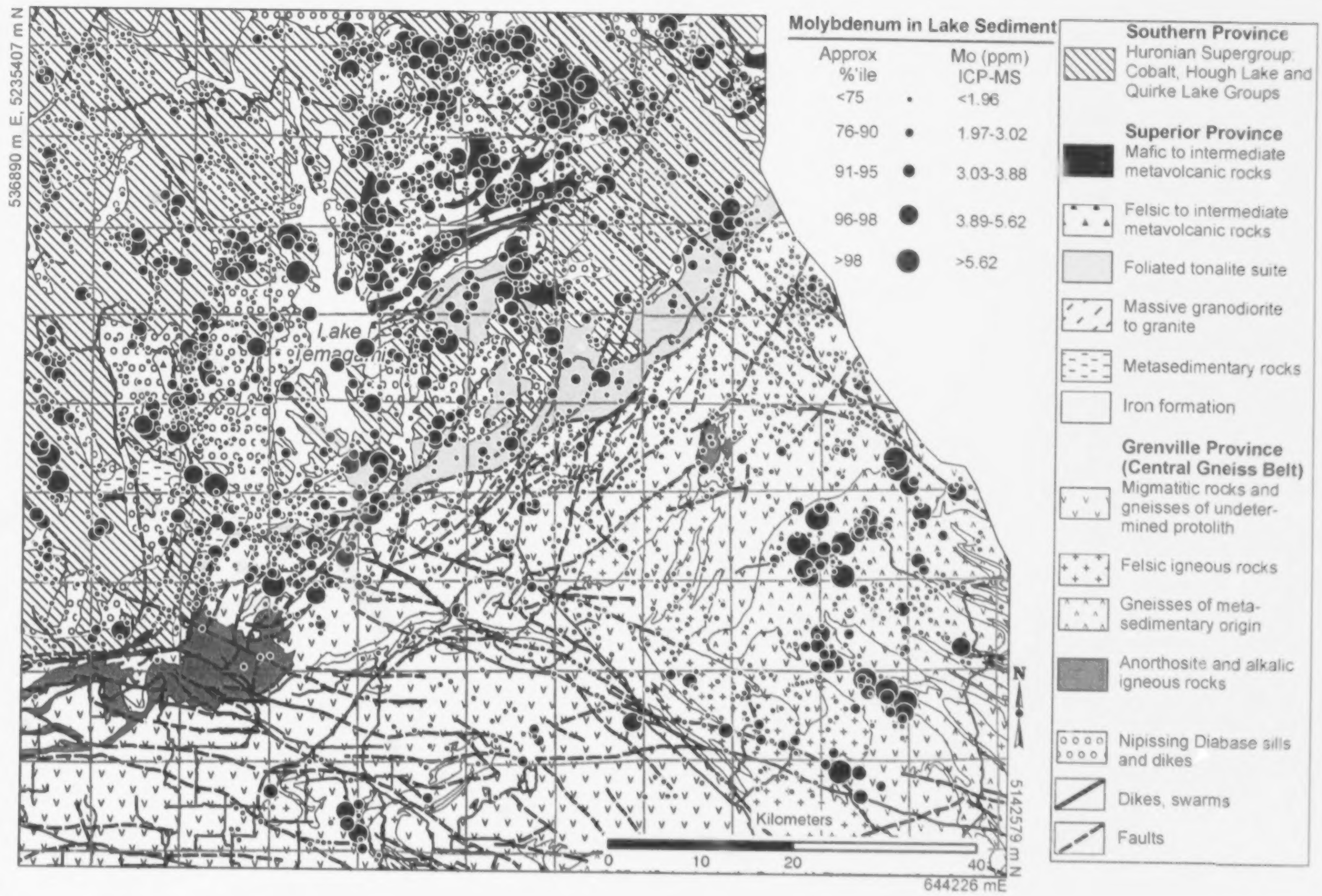
Molybdenum in Lake Sediment
Approx %'ile
Mo (ppm) ICP-MS
<75 • <1.96
76-90 • 1.97-3.02
91-95 • 3.03-3.88
96-98 ● 3.89-5.62
>98 ● >5.62
Southern Province
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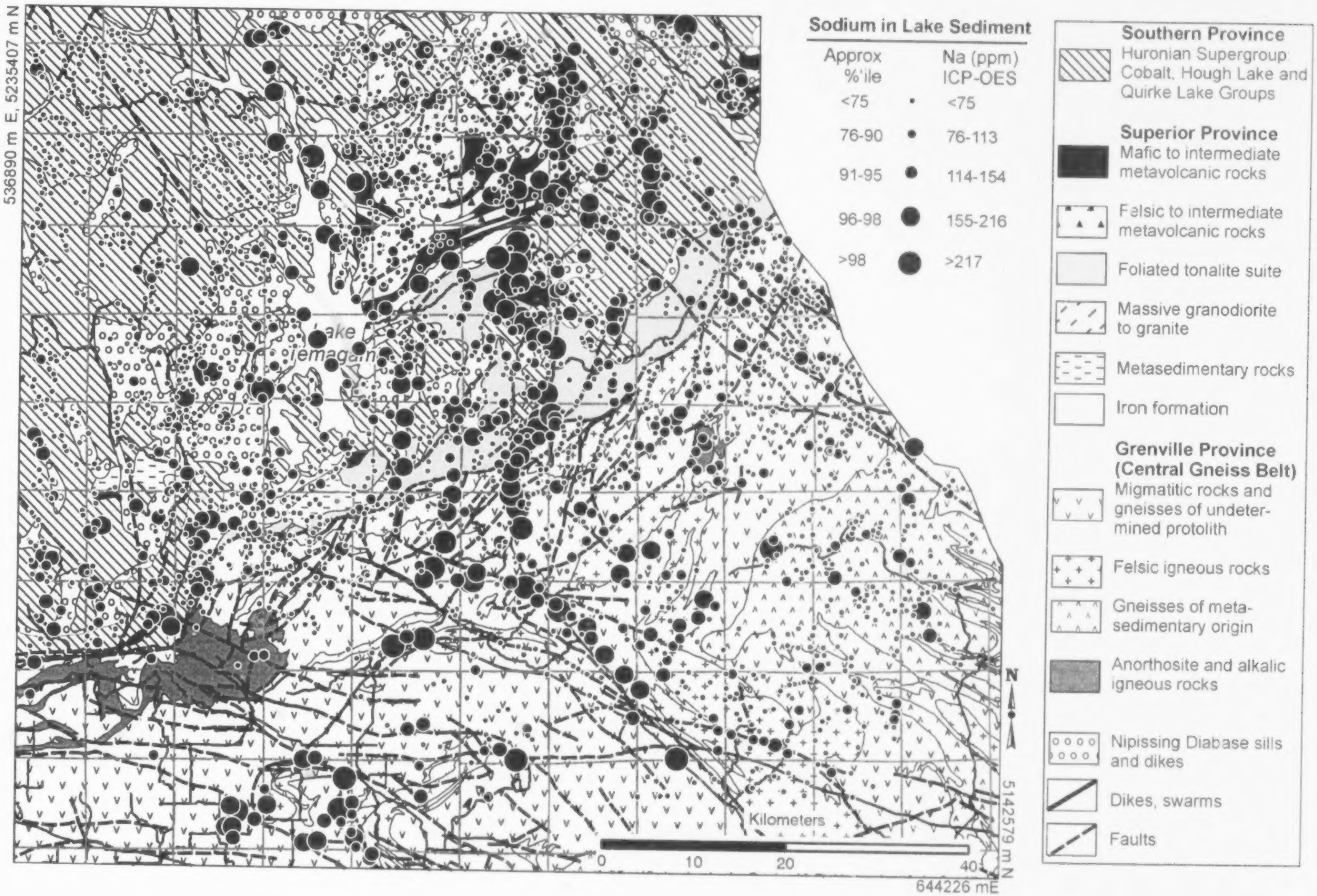
536890 m E, 5235407 m N
5142579 m N
644226 mE
Lake Temagami
N
Kilometers
0
10
20
40



536890 m E, 5235407 m N
Lake Temagami
5142579 m N
644226 mE
N
Kilometers
0
10
20
40
Sodium in Lake Sediment
Approx %'ile
Na (ppm) ICP-OES
<75 • <75
76-90 • 76-113
91-95 ● 114-154
96-98 ● 155-216
>98 ● >217
Southern Province
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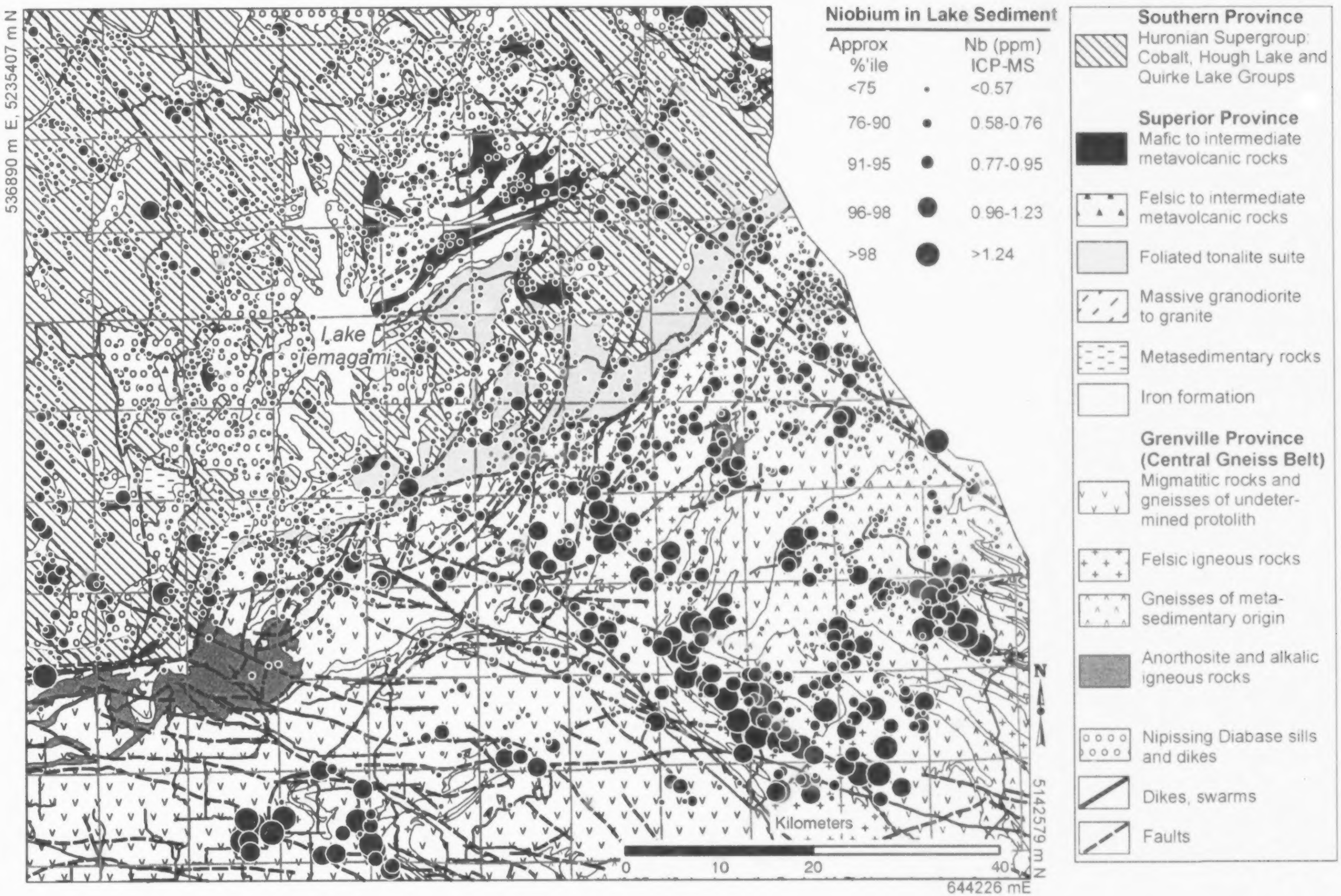
536890 m E, 5235407 m N
Lake Temagami
5142579 m N
644226 mE
Kilometers
0
10
20
40
N
Niobium in Lake Sediment
Approx %'ile
Nb (ppm) ICP-MS
<75
<0.57
76-90
0.58-0.76
91-95
0.77-0.95
96-98
0.96-1.23
>98
>1.24
Southern Province
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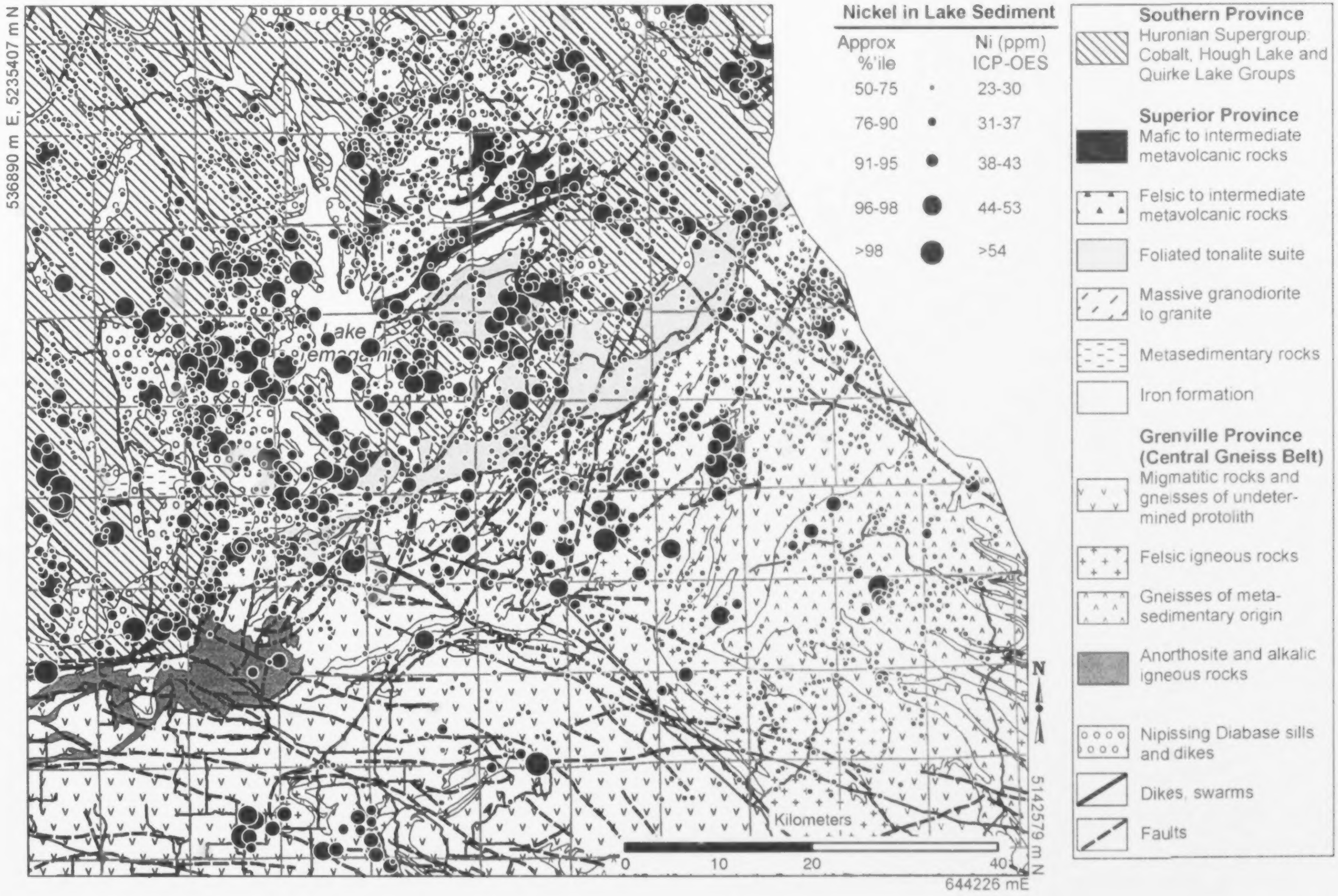
536890 m E, 5235407 m N
5142579 m N
644226 mE
Lake Temagami
N
Kilometers
0
10
20
40
Nickel in Lake Sediment
Approx %'ile
Ni (ppm) ICP-OES
50-75 • 23-30
76-90 • 31-37
91-95 ● 38-43
96-98 ● 44-53
>98 ● >54
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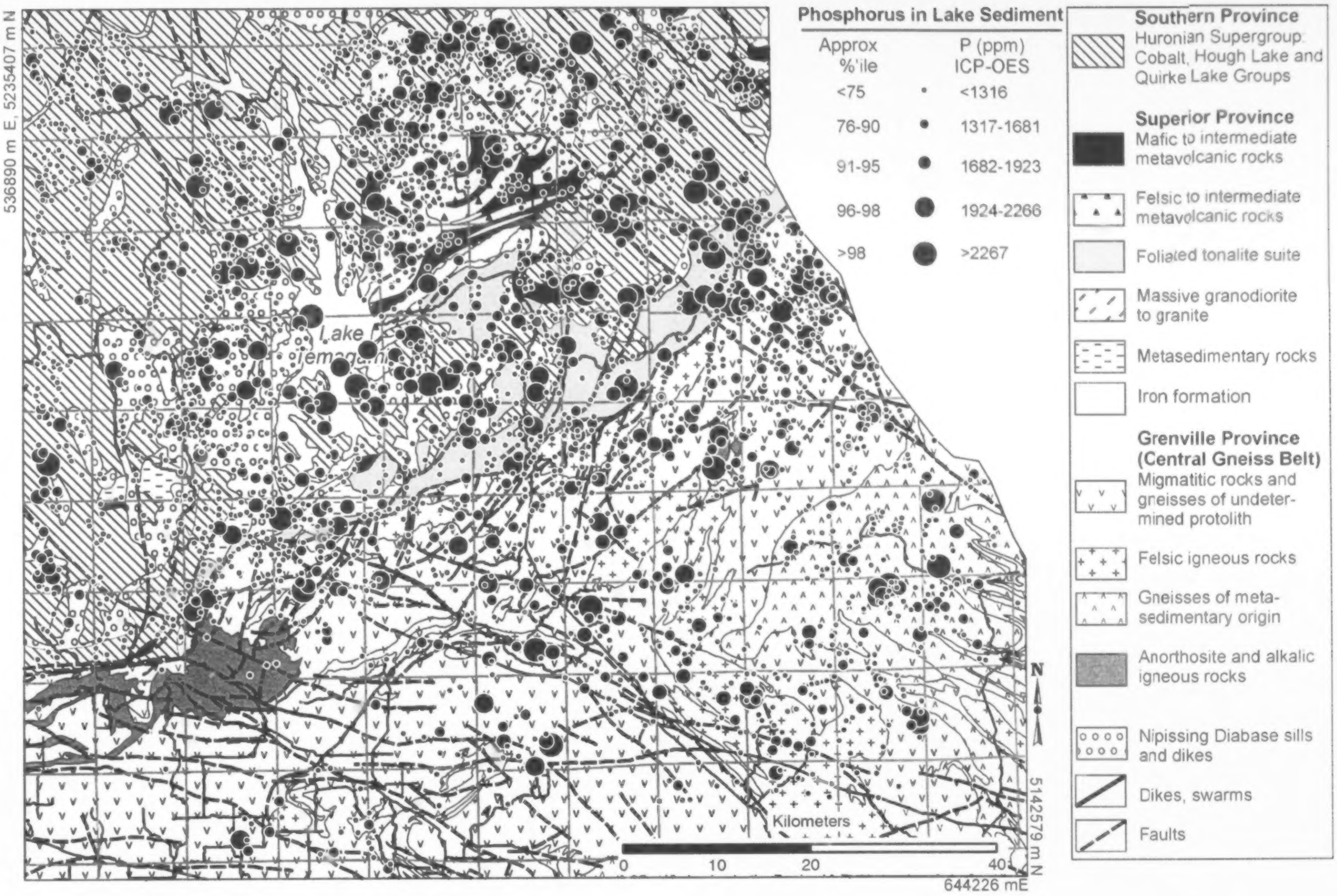
Faults


536890 m E, 5235407 m N
Lake Temagami
Kilometers
0
10
20
40
5142579 m N
644226 mE
N
Phosphorus in Lake Sediment
Approx %'ile
P (ppm) ICP-OES
<75
<1316
76-90
1317-1681
91-95
1682-1923
96-98
1924-2266
>98
>2267
Southern Province
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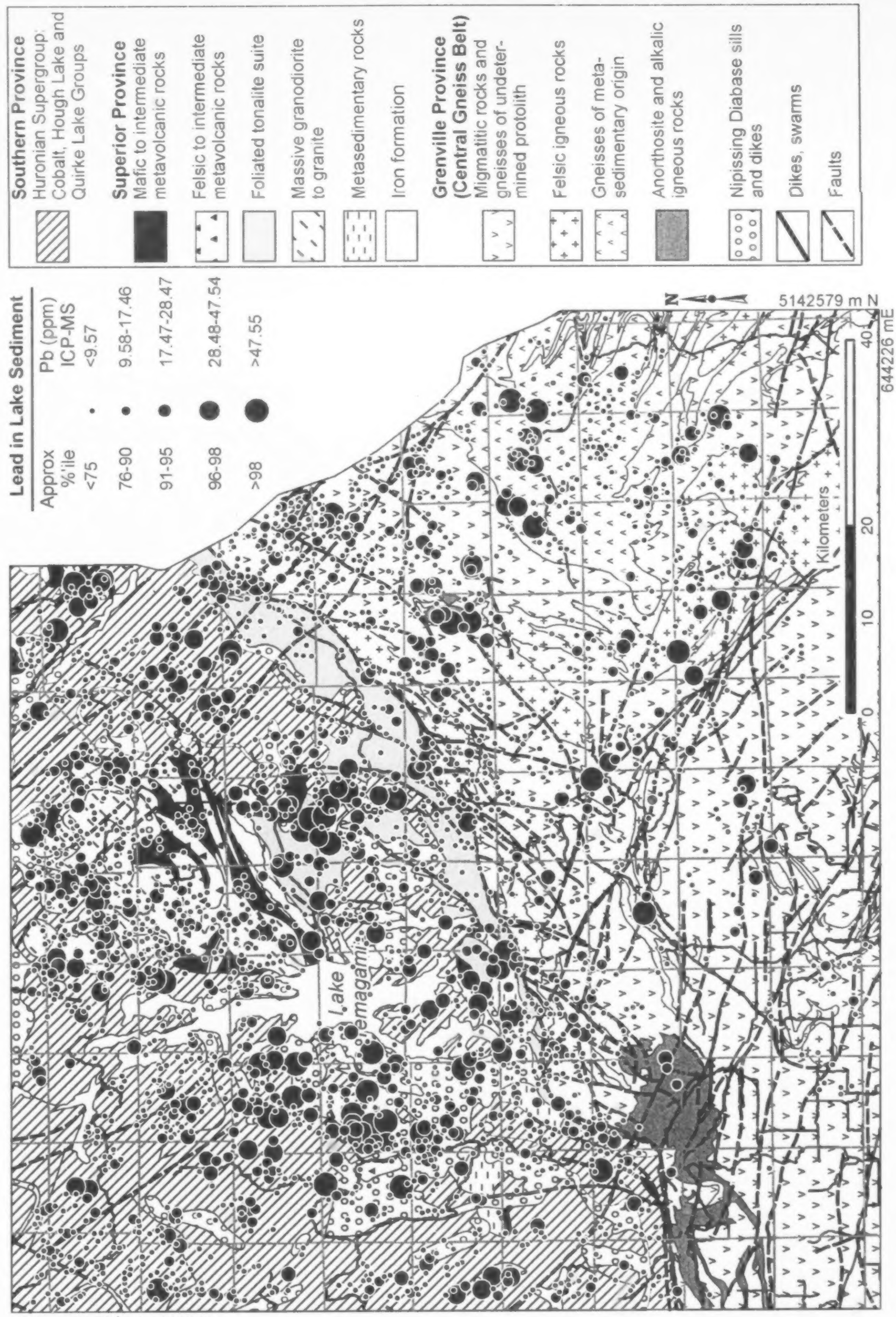
Lead in Lake Sediment
Approx %'ile
Pb (ppm) ICP-MS
<75 <9.57
76-90 9.58-17.46
91-95 17.47-28.47
96-98 28.48-47.54
>98 >47.55
Southern Province
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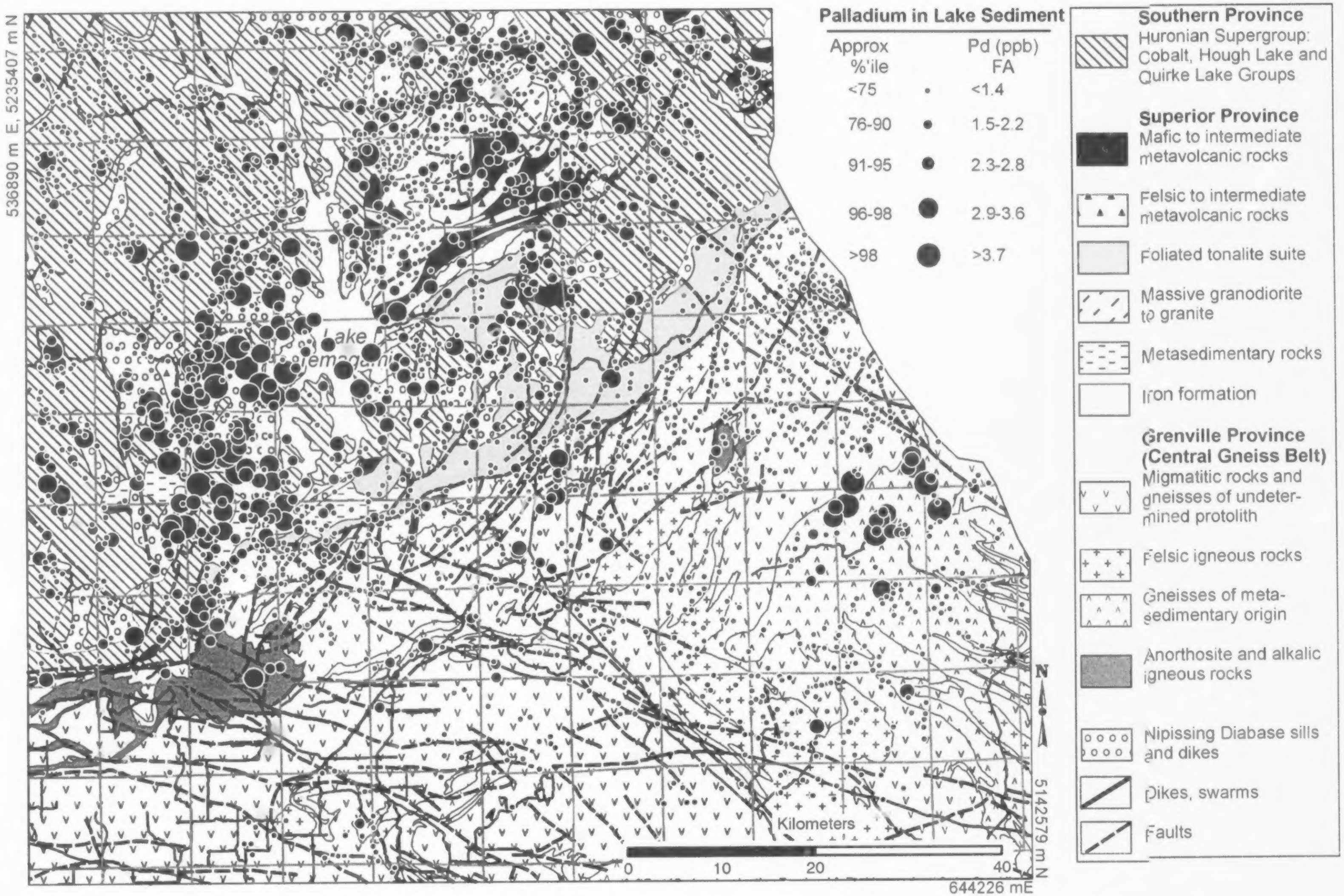
Lake Temagami
N
Kilometers
0
10
20
40
5142579 m N
644226 mE
536890 m E, 5235407 m N


Palladium in Lake Sediment
Approx %'ile
Pd (ppb) FA
<75
<1.4
76-90
1.5-2.2
91-95
2.3-2.8
96-98
2.9-3.6
>98
>3.7
Southern Province
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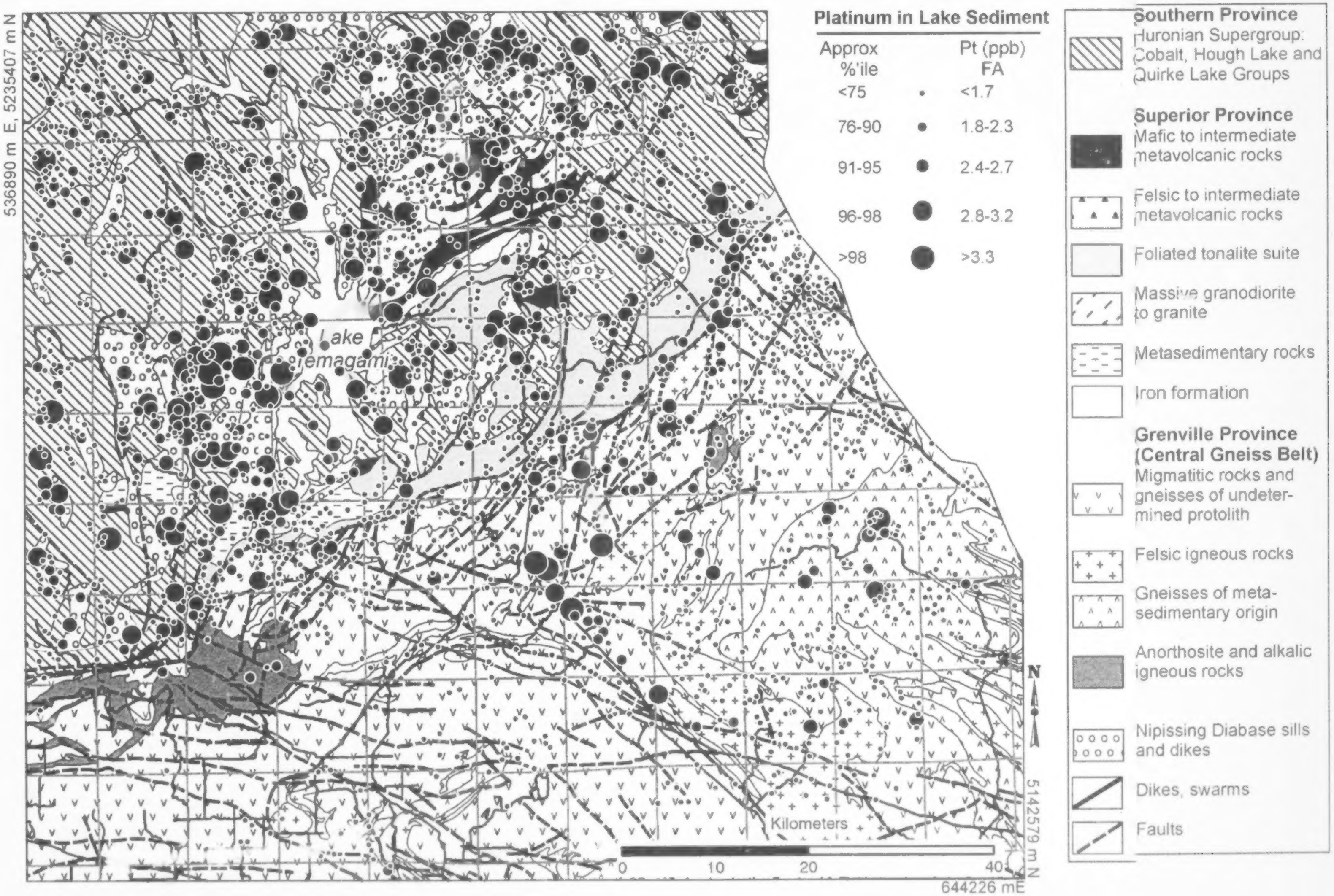
Faults
Lake Temagami
N
Kilometers
0
10
20
40
536890 m E, 5235407 m N
5142579 m N
644226 mE


536890 m E, 5235407 m N
Lake Temagami
Platinum in Lake Sediment
Approx %'ile
Pt (ppb) FA
<75
<1.7
76-90
1.8-2.3
91-95
2.4-2.7
96-98
2.8-3.2
>98
>3.3
Southern Province
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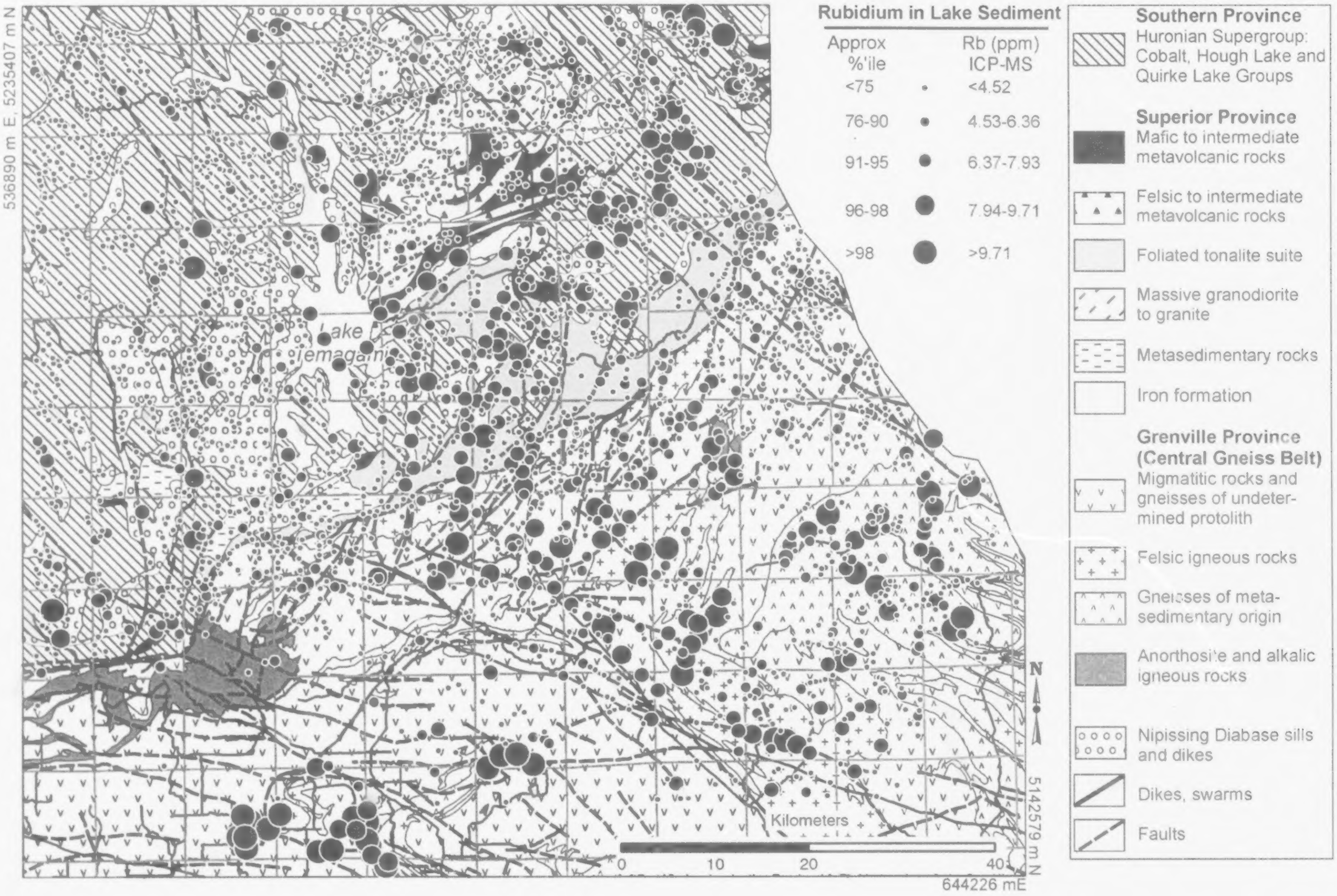
Dikes, swarms
Faults
N
Kilometers
0
10
20
40
5142579 m N
644226 mE


536890 m E, 5235407 m N
Lake Temagami
Rubidium in Lake Sediment
Approx %'ile
Rb (ppm) ICP-MS
<75 <4.52
76-90 4.53-6.36
91-95 6.37-7.93
96-98 7.94-9.71
>98 >9.71
Southern Province
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N
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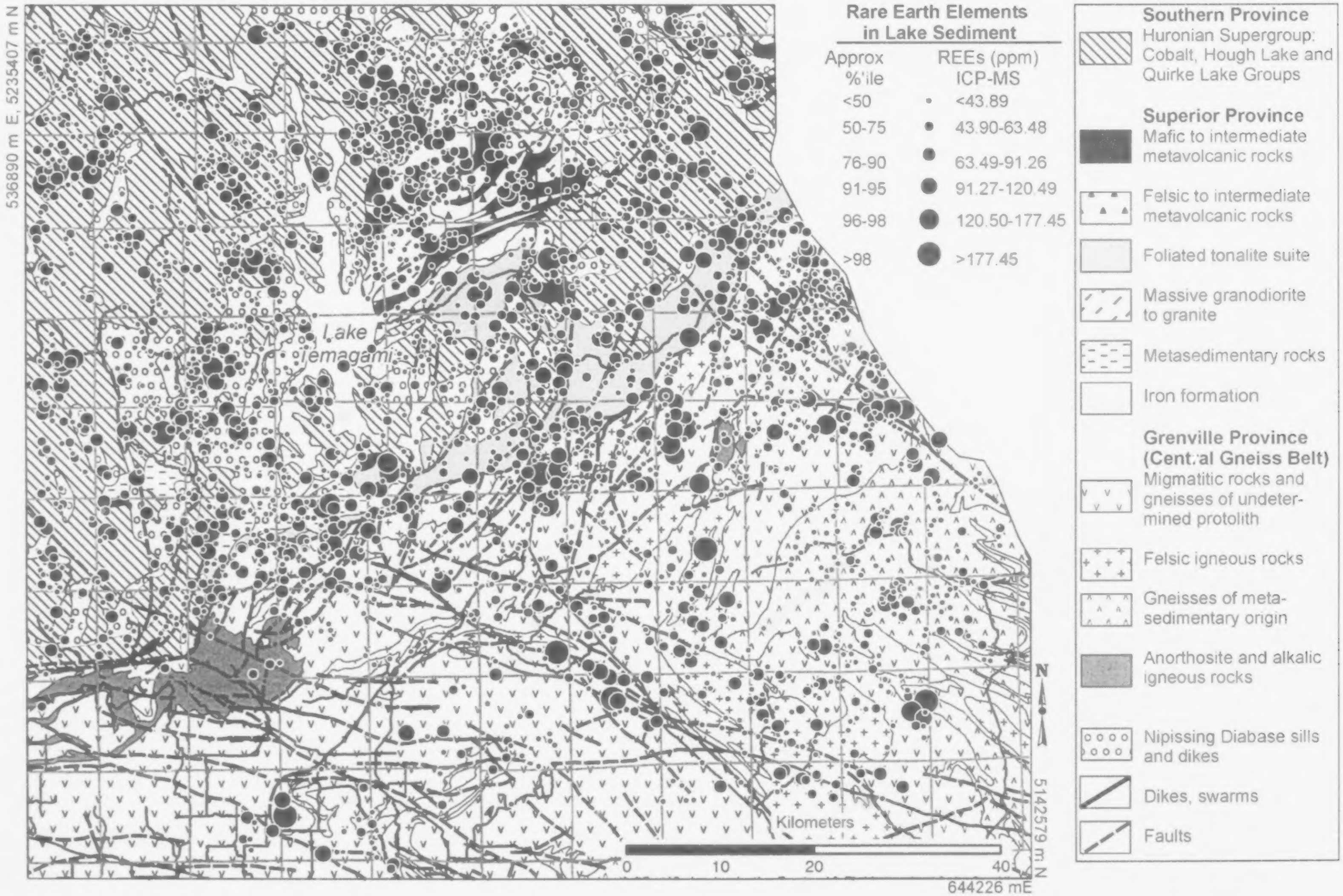
0
10
20
40
5142579 m N
644226 mE


536890 m E, 5235407 m N
Lake Temagami
Rare Earth Elements in Lake Sediment
Approx %'ile
REEs (ppm) ICP-MS
<50 <43.89
50-75 43.90-63.48
76-90 63.49-91.26
91-95 91.27-120.49
96-98 120.50-177.45
>98 >177.45
N
Kilometers
0
10
20
40
5142579 m N
644226 mE
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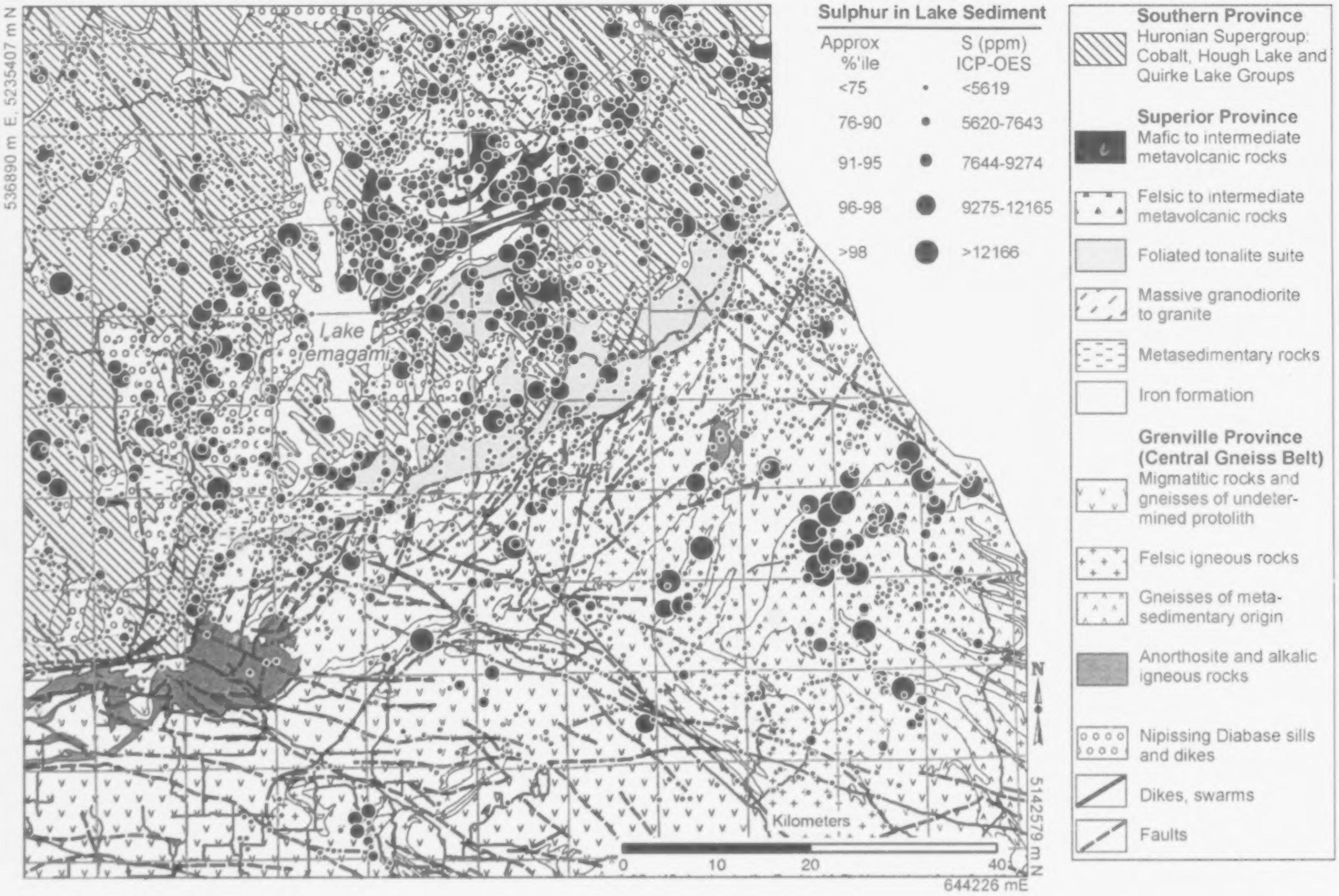
536890 m E, 5235407 m N
Lake Temagami
Kilometers
0
10
20
40
5142579 m N
644226 mE
N
Sulphur in Lake Sediment
Approx %'ile
S (ppm) ICP-OES
<75
<5619
76-90
5620-7643
91-95
7644-9274
96-98
9275-12165
>98
>12166
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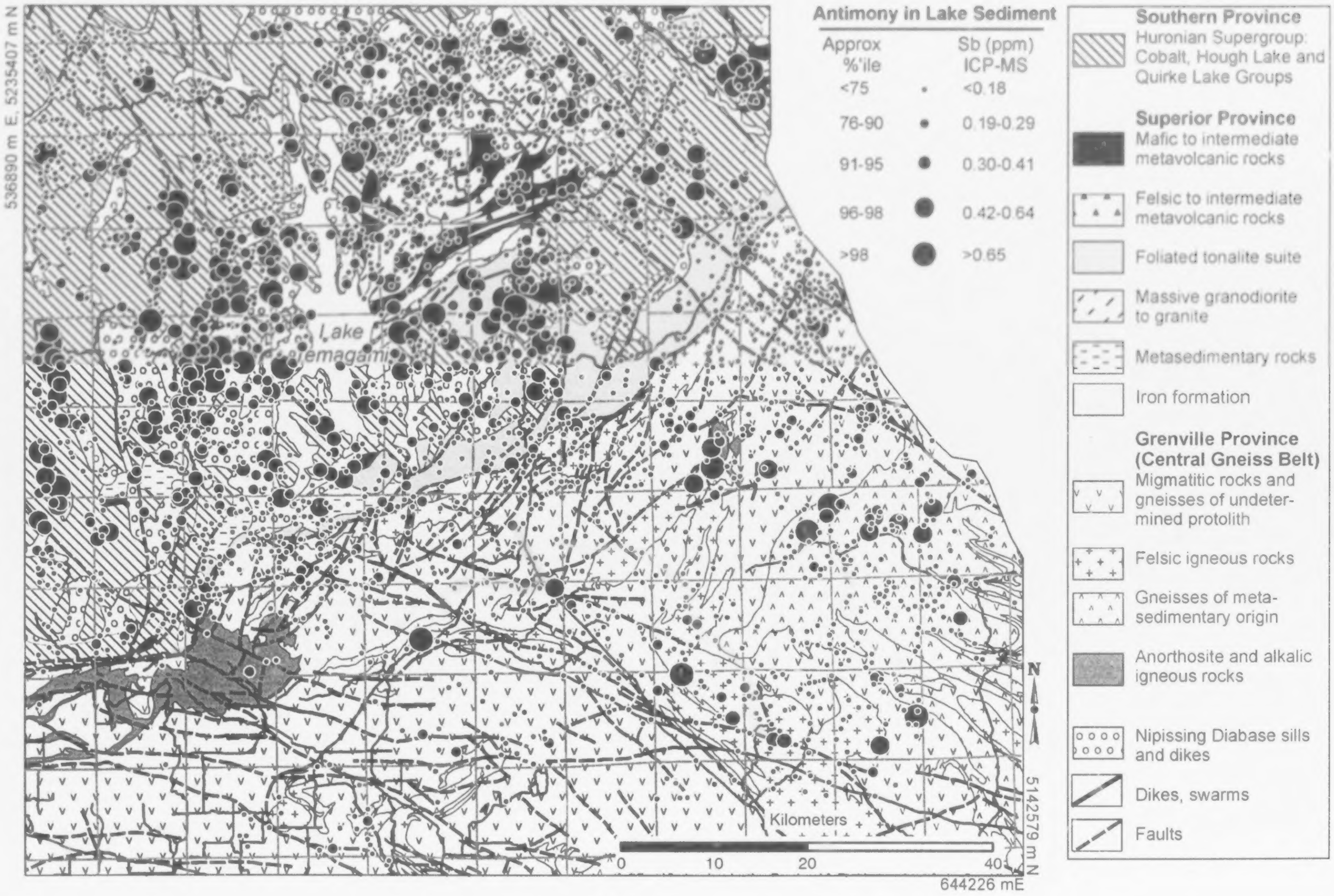
Antimony in Lake Sediment
Approx %'ile
Sb (ppm) ICP-MS
<75 • <0.18
76-90 • 0.19-0.29
91-95 ● 0.30-0.41
96-98 ● 0.42-0.64
>98 ● >0.65
Southern Province
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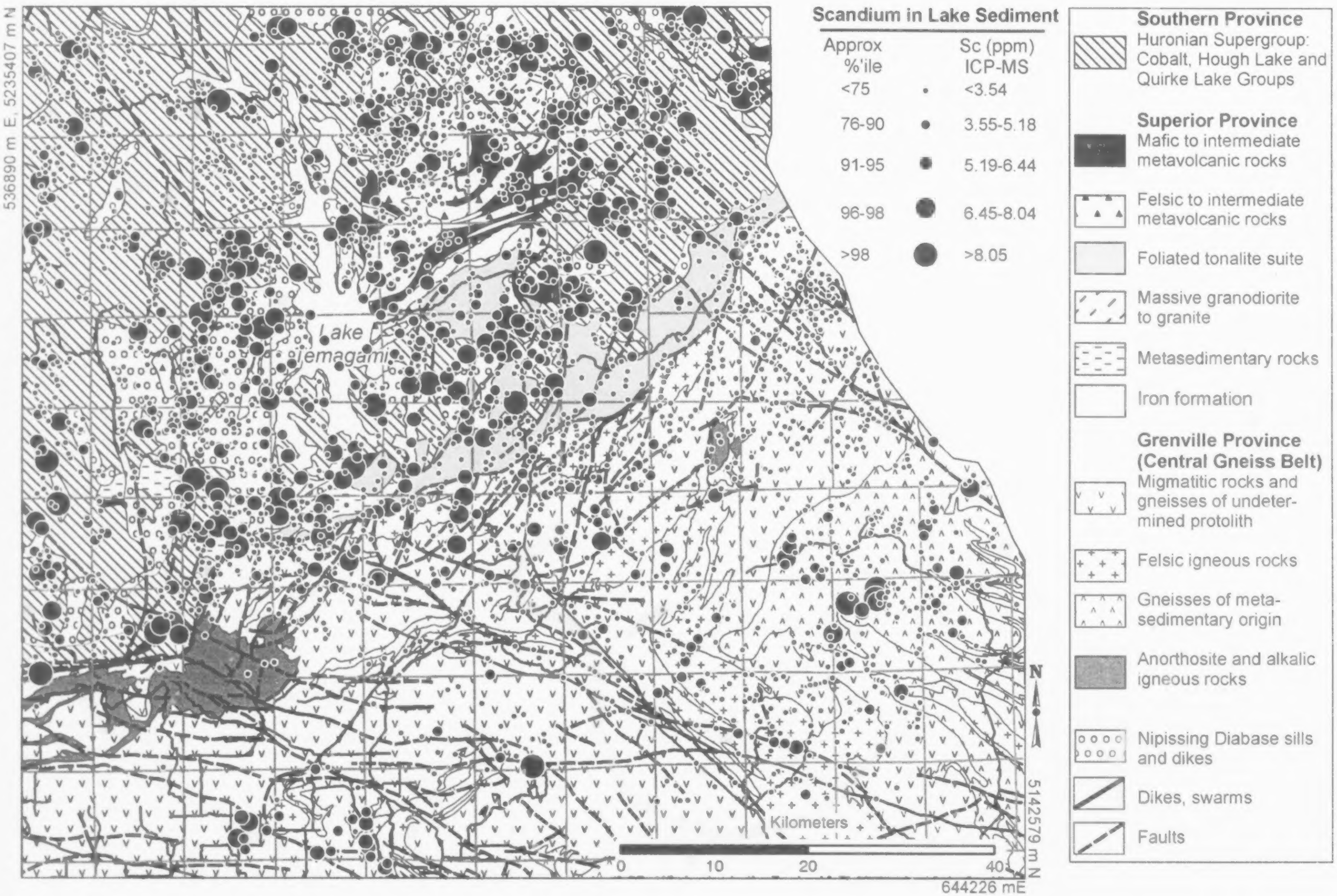
Faults
Lake Temagami
N
Kilometers
0
10
20
40
536890 m E, 5235407 m N
5142579 m N
644226 mE


536890 m E, 5235407 m N
Lake Temagami
Scandium in Lake Sediment
Approx %'ile
Sc (ppm) ICP-MS
<75 • <3.54
76-90 • 3.55-5.18
91-95 • 5.19-6.44
96-98 ● 6.45-8.04
>98 ● >8.05
Southern Province
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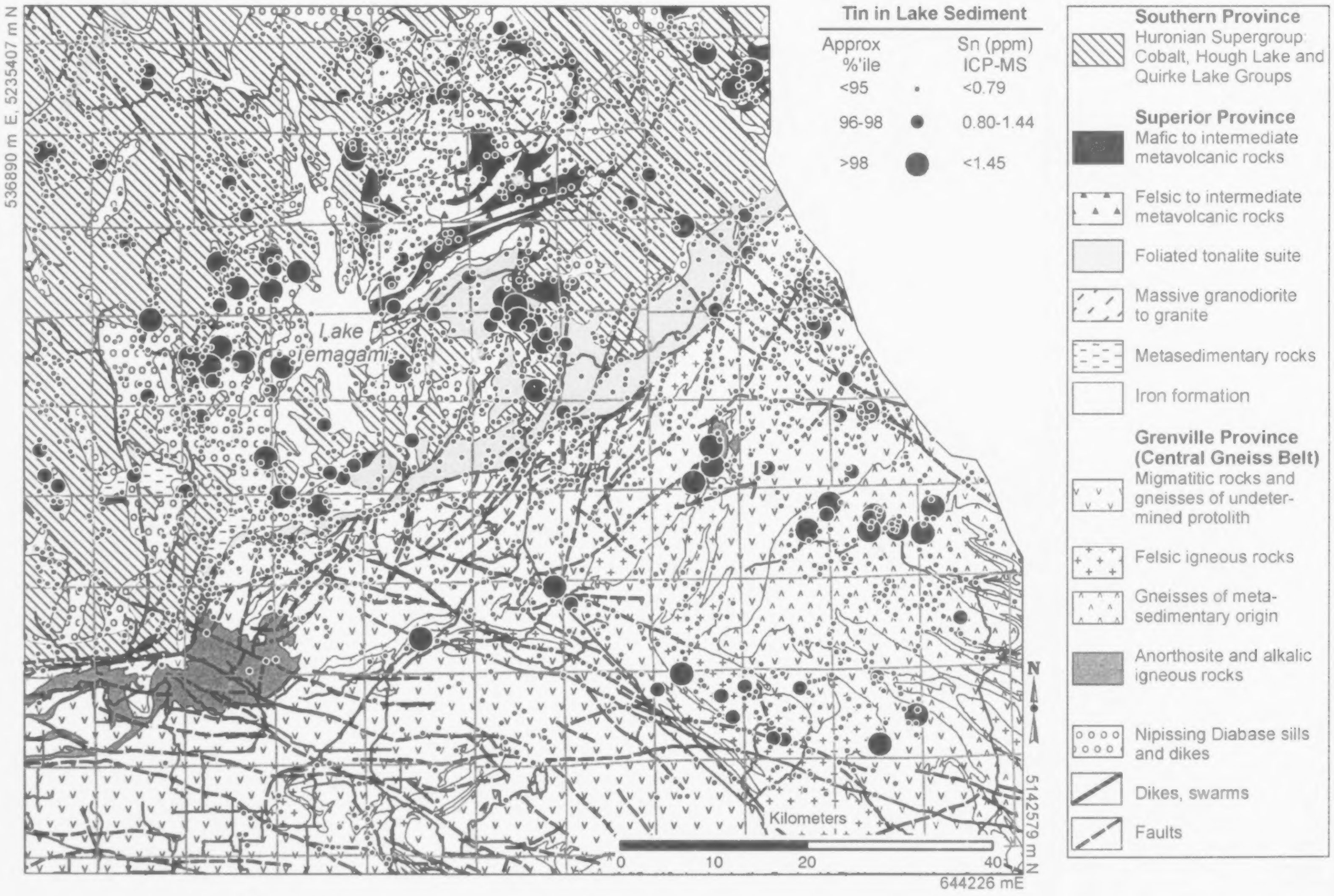
Dikes, swarms
Faults
N
Kilometers
0
10
20
40
5142579 m N
644226 mE


536890 m E, 5235407 m N
Lake Temagami
Tin in Lake Sediment
Approx %'ile
Sn (ppm) ICP-MS
<95 • <0.79
96-98 ● 0.80-1.44
>98 ⬤ <1.45
Southern Province
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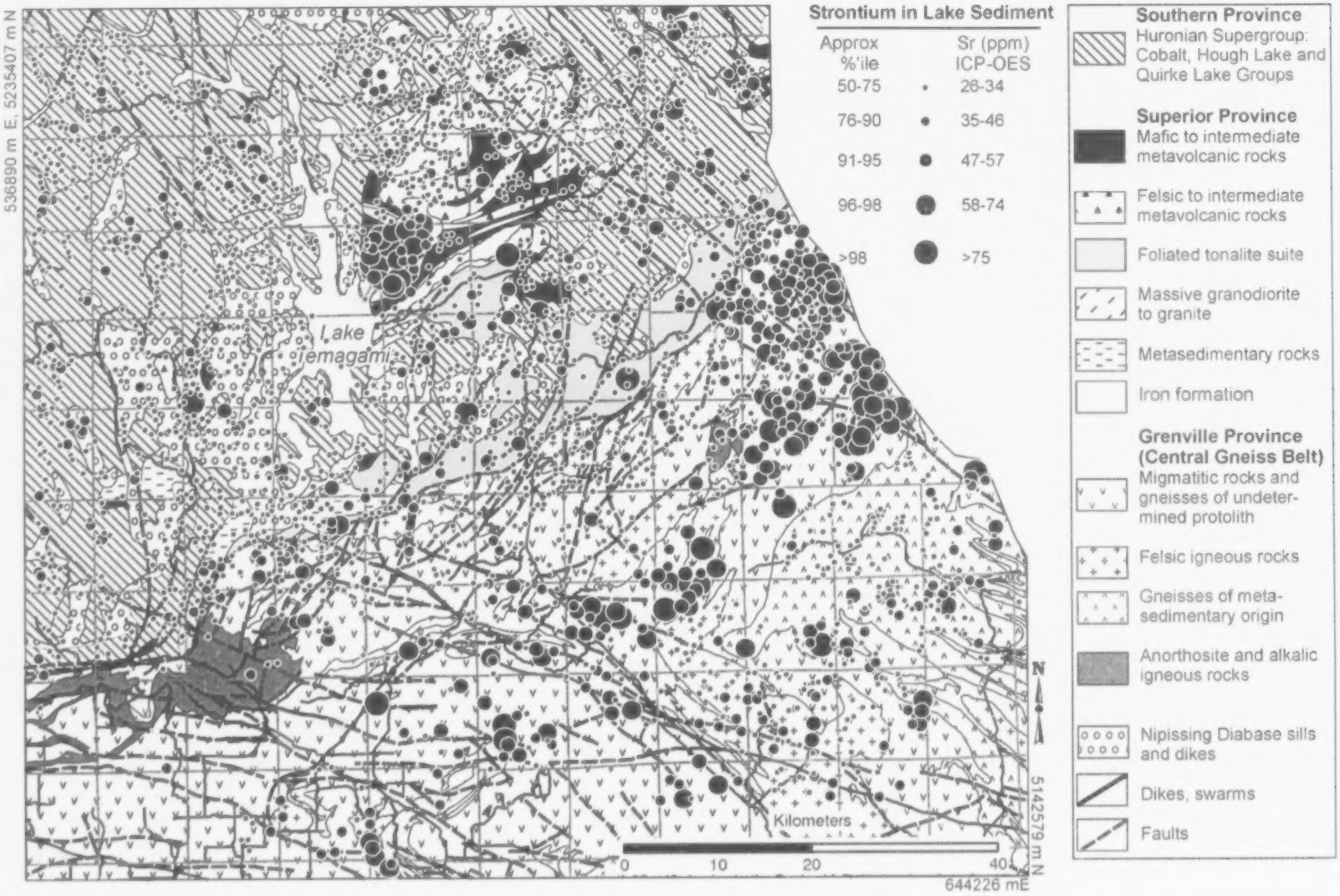
Faults
N
Kilometers
0
10
20
40
5142579 m N
644226 mE


536890 m E, 5235407 m N
Lake Temagami
Strontium in Lake Sediment
Approx %'ile
Sr (ppm) ICP-OES
50-75 • 26-34
76-90 • 35-46
91-95 ● 47-57
96-98 ● 58-74
>98 ● >75
Southern Province
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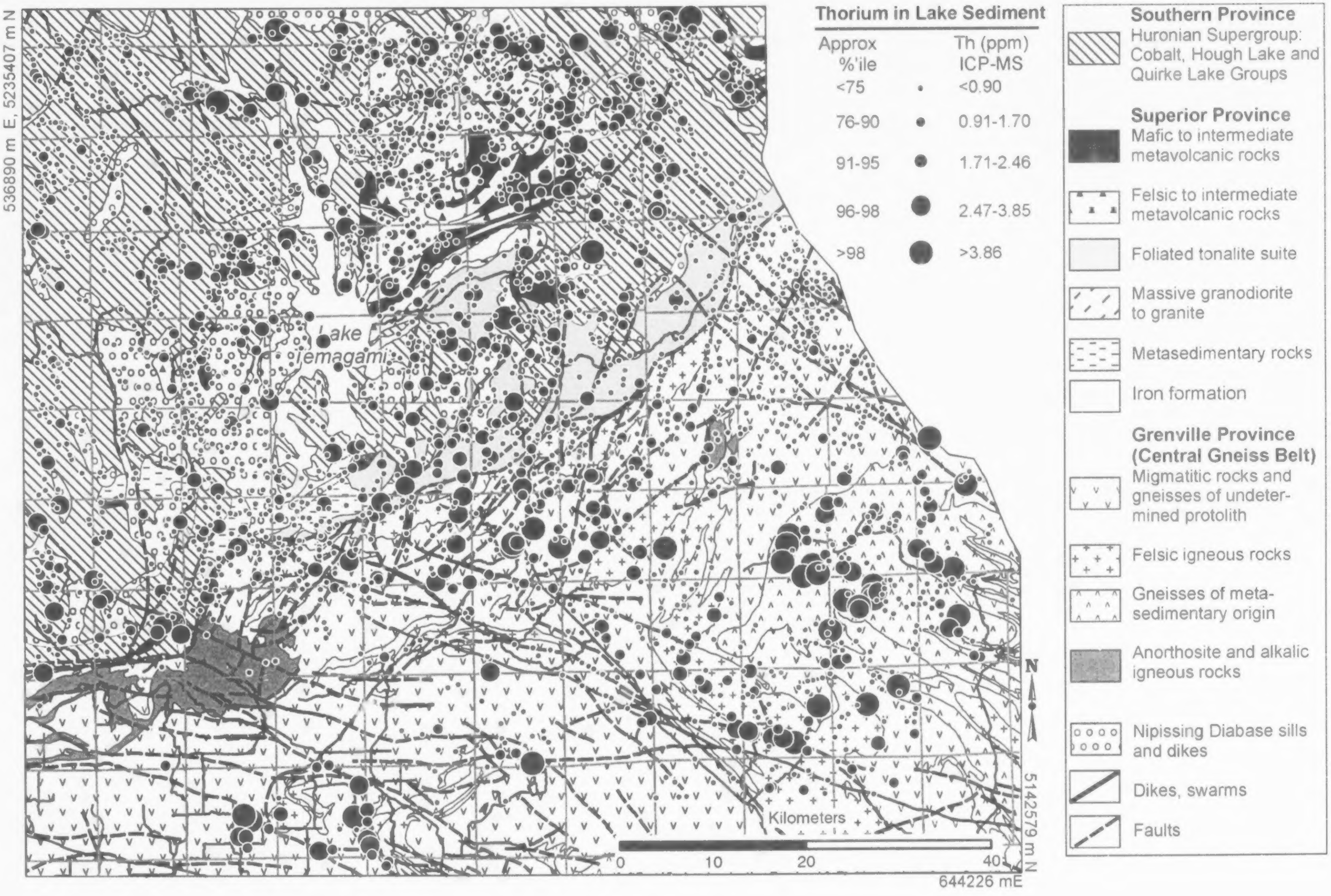
Faults
N
Kilometers
0
10
20
40
5142579 m N
644226 mE


Thorium in Lake Sediment
Approx %'ile
Th (ppm) ICP-MS
<75
<0.90
76-90
0.91-1.70
91-95
1.71-2.46
96-98
2.47-3.85
>98
>3.86
Southern Province
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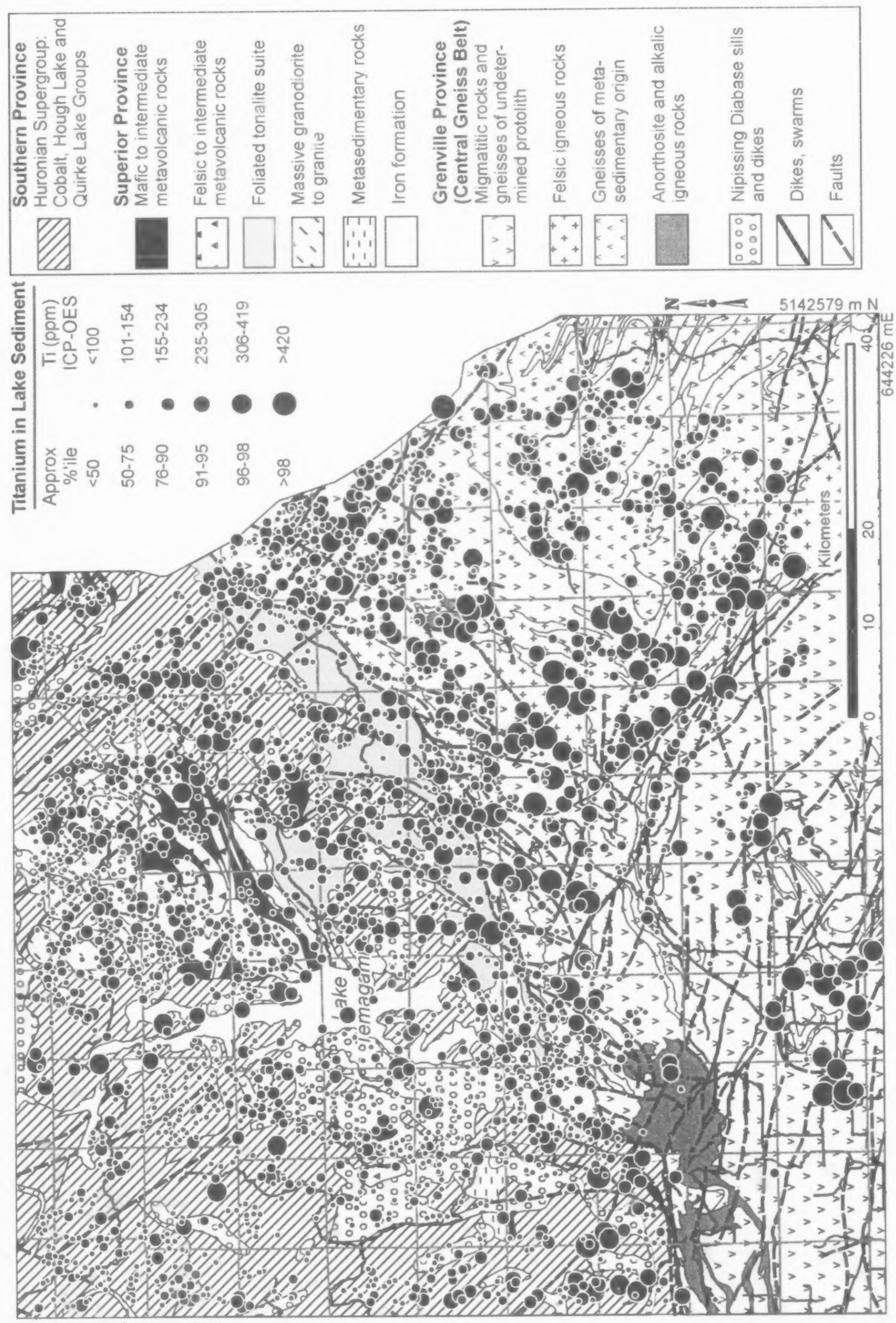
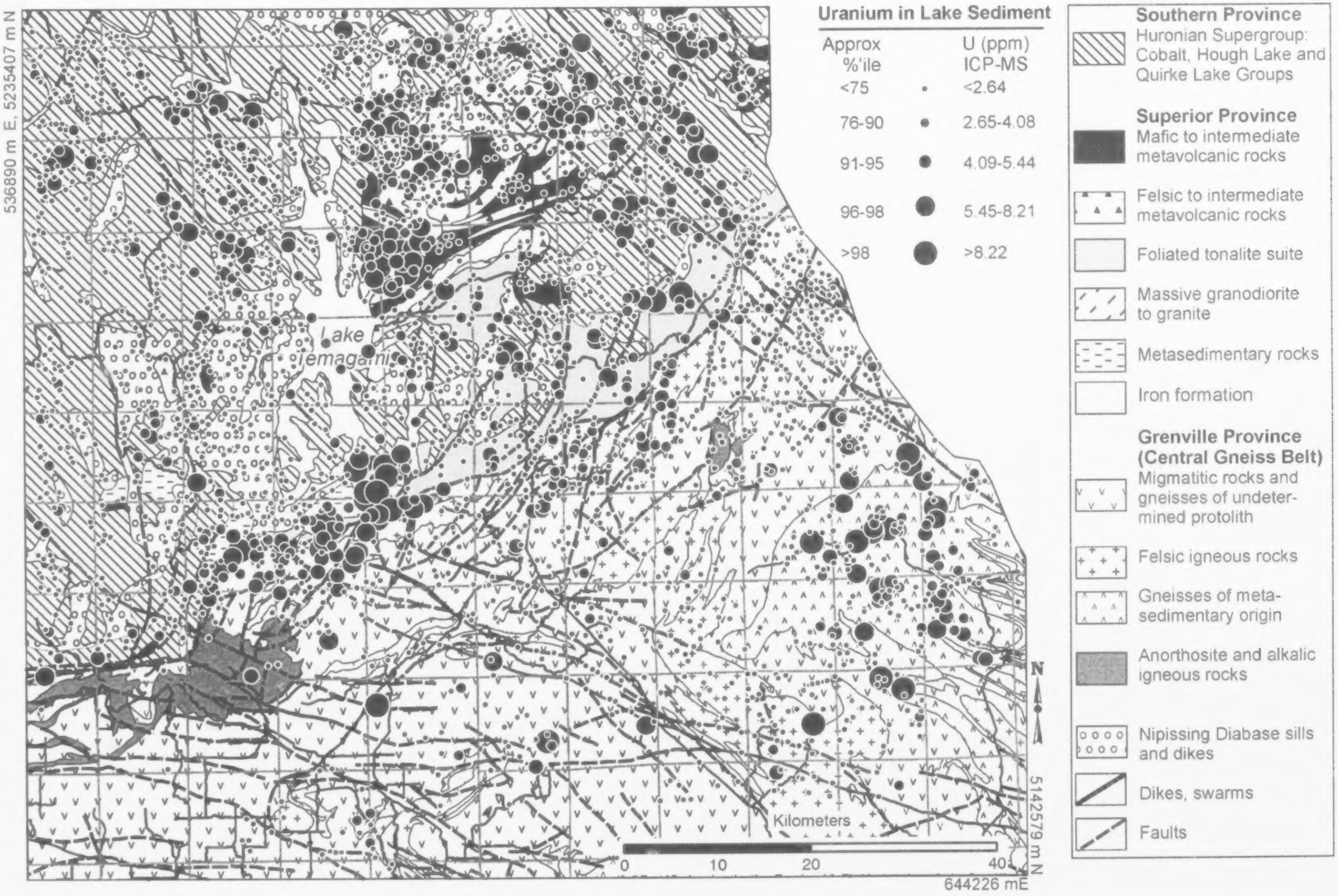
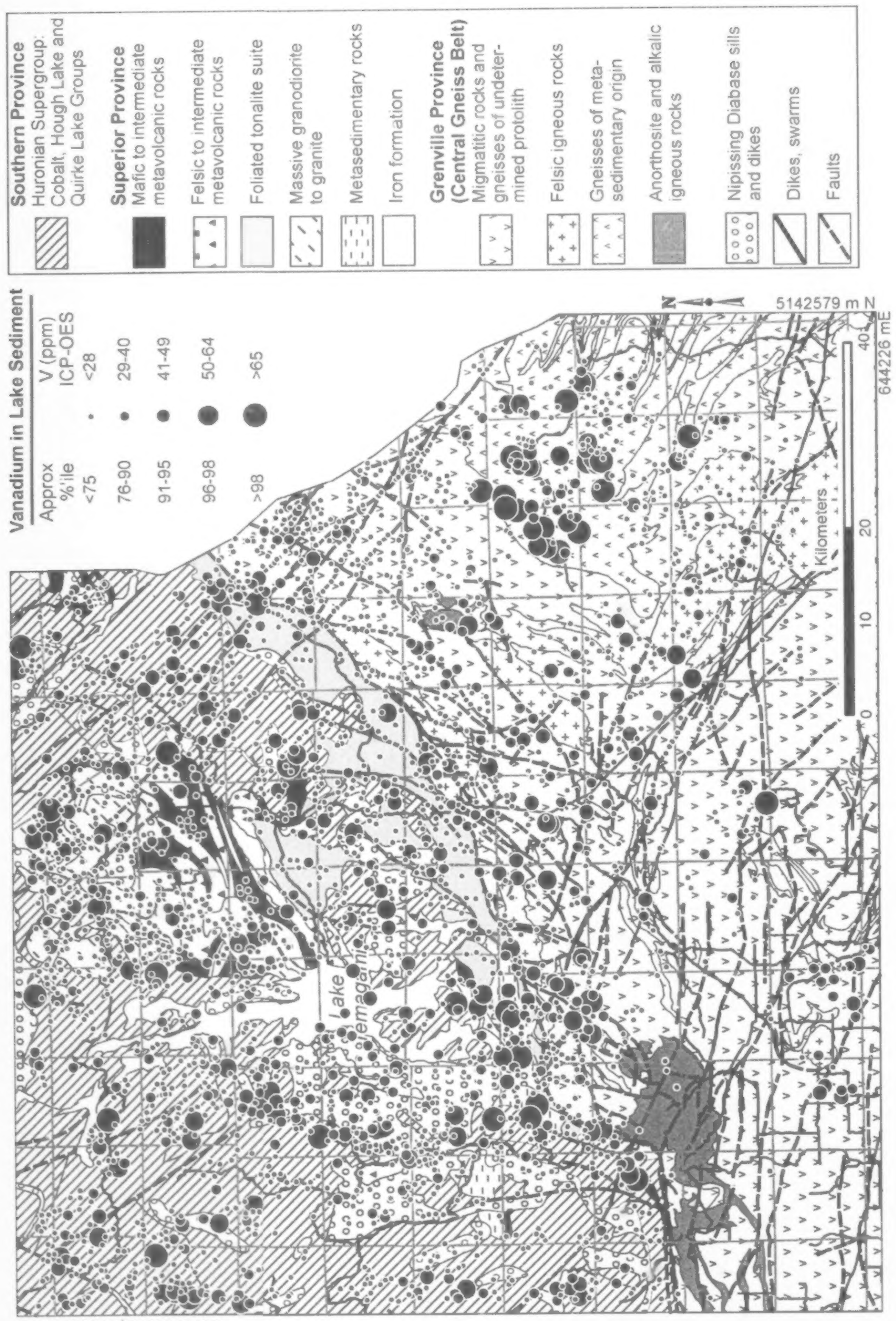
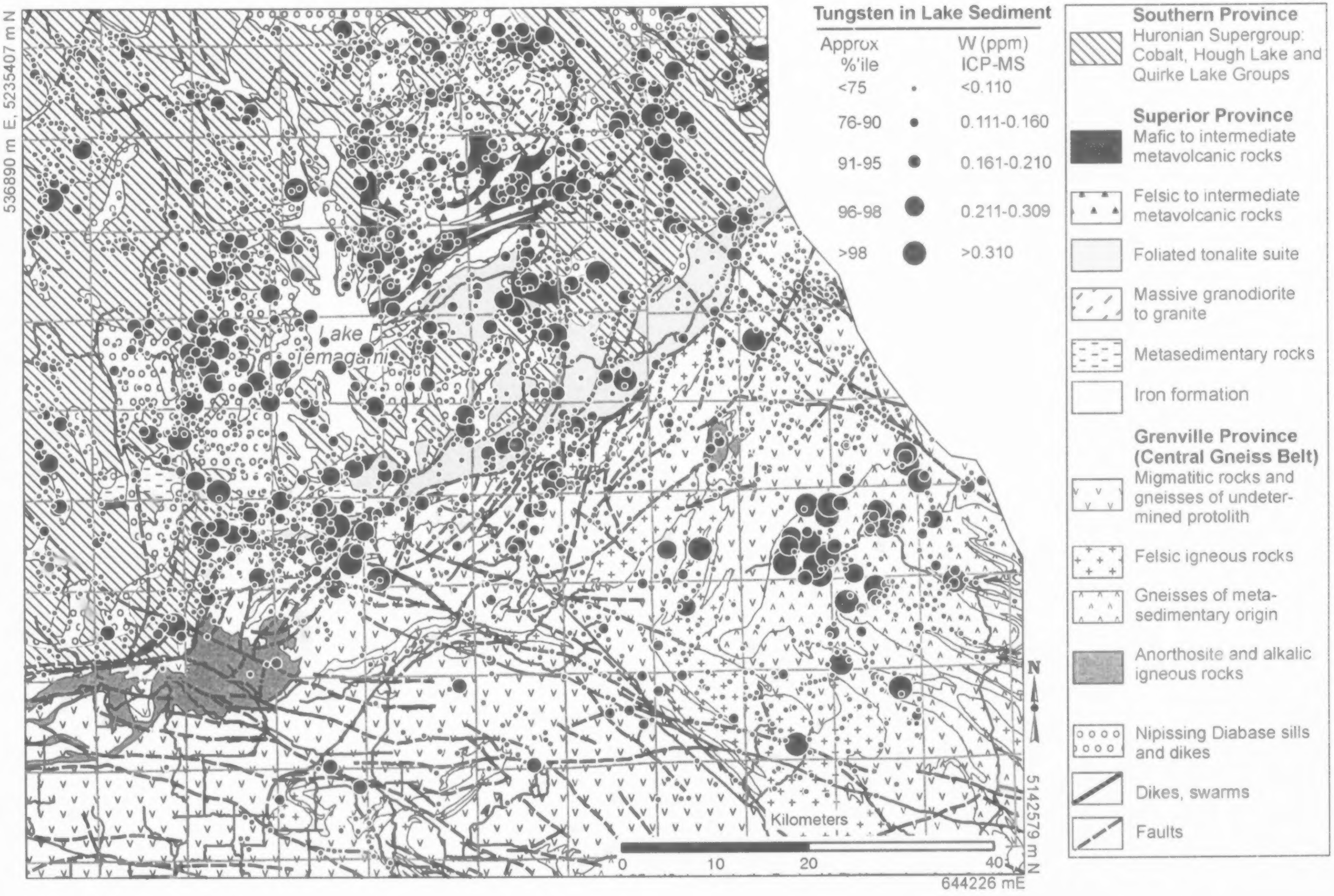
Gneisses of metasedimentary origin
Anorthosite and alkalic igneous rocks
Nipissing Diabase sills and dikes
Dikes, swarms
Faults
Lake Temagami
536890 m E, 5235407 m N
5142579 m N
644226 mE
N
Kilometers
0
10
20
40


Titanium in Lake Sediment
Approx %'ile
Ti (ppm) ICP-OES
<50
<100
50-75
101-154
76-90
155-234
91-95
235-305
96-98
306-419
>98
>420
Southern Province
Huronian Supergroup: Cobalt, Hough Lake and Quirke Lake Groups
Superior Province
Mafic to intermediate metavolcanic rocks
Felsic to intermediate metavolcanic rocks
Foliated tonalite suite
Massive granodiorite to granite
Metasedimentary rocks
Iron formation
Grenville Province (Central Gneiss Belt)
Migmatitic rocks and gneisses of undetermined protolith
Felsic igneous rocks
Gneisses of metasedimentary origin
Anorthosite and alkalic igneous rocks
Nipissing Diabase sills and dikes
Dikes, swarms
Faults
Lake Temagami
N
5142579 m N
644226 mE
536890 m E, 5235407 m N
0
10
20
40
Kilometers


536890 m E, 5235407 m N
Lake Temagami
Uranium in Lake Sediment
Approx %'ile
U (ppm) ICP-MS
<75
<2.64
76-90
2.65-4.08
91-95
4.09-5.44
96-98
5.45-8.21
>98
>8.22
Southern Province
Huronian Supergroup: Cobalt, Hough Lake and Quirke Lake Groups
Superior Province
Mafic to intermediate metavolcanic rocks
Felsic to intermediate metavolcanic rocks
Foliated tonalite suite
Massive granodiorite to granite
Metasedimentary rocks
Iron formation
Grenville Province (Central Gneiss Belt)
Migmatitic rocks and gneisses of undetermined protolith
Felsic igneous rocks
Gneisses of metasedimentary origin
Anorthosite and alkalic igneous rocks
Nipissing Diabase sills and dikes
Dikes, swarms
Faults
N
Kilometers
0
10
20
40
5142579 m N
644226 mE


Vanadium in Lake Sediment
Approx %'ile
V (ppm) ICP-OES
<75 · <28
76-90 · 29-40
91-95 · 41-49
96-98 · 50-64
>98 · >65
Southern Province
Huronian Supergroup: Cobalt, Hough Lake and Quirke Lake Groups
Superior Province
Mafic to intermediate metavolcanic rocks
Felsic to intermediate metavolcanic rocks
Foliated tonalite suite
Massive granodiorite to granite
Metasedimentary rocks
Iron formation
Grenville Province (Central Gneiss Belt)
Migmatitic rocks and gneisses of undetermined protolith
Felsic igneous rocks
Gneisses of meta-sedimentary origin
Anorthosite and alkalic igneous rocks
Nipissing Diabase sills and dikes
Dikes, swarms
Faults
Lake Temagami
N
5142579 m N
644226 mE
0
10
20
40
Kilometers
536890 m E, 5235407 m N


536890 m E, 5235407 m N
Lake Temagami
N
Kilometers
0
10
20
40
5142579 m N
644226 mE
Tungsten in Lake Sediment
Approx %'ile
W (ppm) ICP-MS
<75
<0.110
76-90
0.111-0.160
91-95
0.161-0.210
96-98
0.211-0.309
>98
>0.310
Southern Province
Huronian Supergroup: Cobalt, Hough Lake and Quirke Lake Groups
Superior Province
Mafic to intermediate metavolcanic rocks
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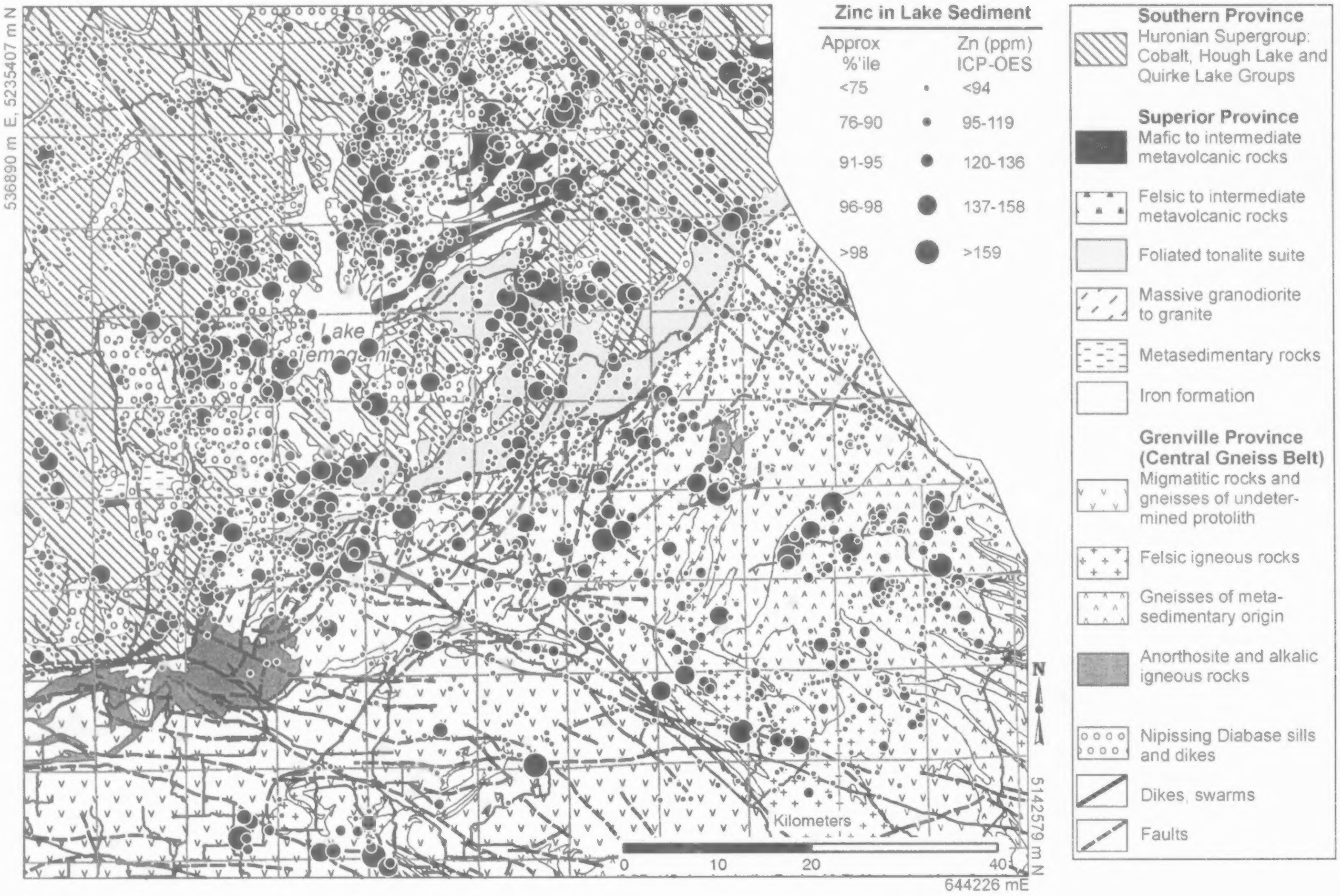
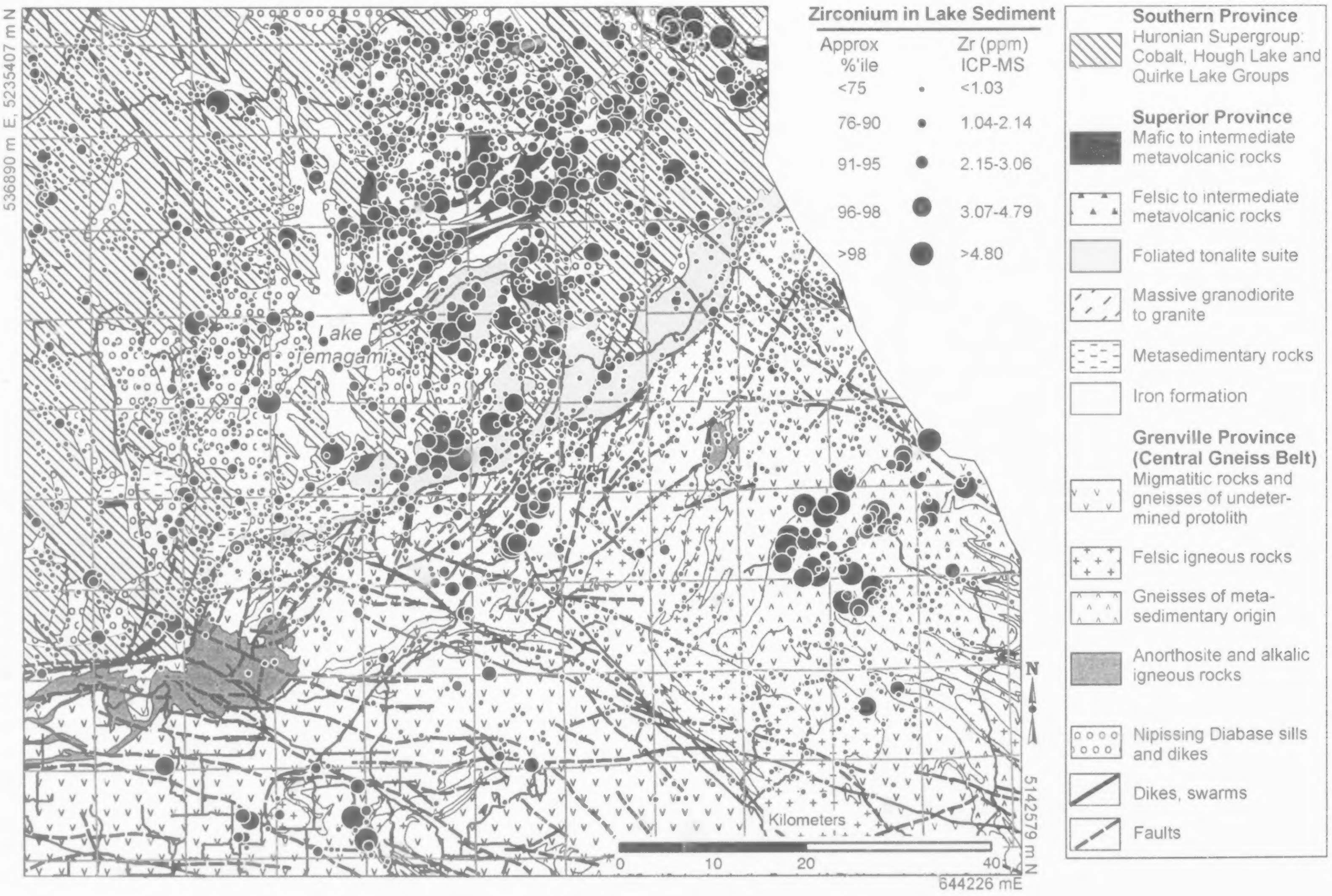
Grenville Province (Central Gneiss Belt)
Migmatitic rocks and gneisses of undetermined protolith
Felsic igneous rocks
Gneisses of metasedimentary origin
Anorthosite and alkalic igneous rocks
Nipissing Diabase sills and dikes
Dikes, swarms
Faults


536890 m E, 5235407 m N
Lake Temagami
Kilometers
0
10
20
40
5142579 m N
644226 mE
N
Zinc in Lake Sediment
Approx %'ile
Zn (ppm) ICP-OES
<75
<94
76-90
95-119
91-95
120-136
96-98
137-158
>98
>159
Southern Province
Huronian Supergroup: Cobalt, Hough Lake and Quirke Lake Groups
Superior Province
Mafic to intermediate metavolcanic rocks
Felsic to intermediate metavolcanic rocks
Foliated tonalite suite
Massive granodiorite to granite
Metasedimentary rocks
Iron formation
Grenville Province (Central Gneiss Belt)
Migmatitic rocks and gneisses of undetermined protolith
Felsic igneous rocks
Gneisses of metasedimentary origin
Anorthosite and alkalic igneous rocks
Nipissing Diabase sills and dikes
Dikes, swarms
Faults


Zirconium in Lake Sediment
Approx %'ile
Zr (ppm) ICP-MS
<75 <1.03
76-90 1.04-2.14
91-95 2.15-3.06
96-98 3.07-4.79
>98 >4.80
Southern Province
Huronian Supergroup: Cobalt, Hough Lake and Quirke Lake Groups
Superior Province
Mafic to intermediate metavolcanic rocks
Felsic to intermediate metavolcanic rocks
Foliated tonalite suite
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Metasedimentary rocks
Iron formation
Grenville Province (Central Gneiss Belt)
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Nipissing Diabase sills and dikes
Dikes, swarms
Faults
Lake Temagami
N
536890 m E, 5235407 m N
5142579 m N
644226 mE
Kilometers
0
10
20
40

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Appendix C

Lake Sediment Analytical Data for Lake Depth, Loss-on-Ignition, pH, Conductivity, Temperature, Ag, As, Cd, Co, Cr, Cu, Fe, Mn, Mo, Ni, Pb, Pd, Pt, S, U and Zn

Explanations:

Depth	lake depth in metres
pH	pH measured from the YSI unit
Cond	electrical conductivity measured from the YSI unit
Temp	temperature in degrees Celsius measured from the YSI unit
ICP-MS	inductively coupled plasma mass spectrometry
ICP-OES	inductively coupled plasma optical emission spectroscopy
FAICPMS	fire assay followed by inductively coupled plasma mass spectrometry
NS	no sample
INF	insufficient sample for analysis
NM	not measured, sample lost at lab
MRD	data is available in MRD 137

Site	Easting	Northing	Lake	LOI	pH	Cond	Temp	Ag	As	Cd	Co	Cr	Cu	Fe	Mn	Mo	Ni	Pb	Pd	Pt	S	Sn	Ti	U	Zn
Number	Method ------>		Depth	Grav	YSI	YSI	YSI	ICP-MS	INAA	ICP-MS	ICP-MS	ICP-OES	ICP-OES	ICP-OES	ICP-OES	ICP-MS	ICP-OES	ICP-MS	FAICPMS	FAICPMS	ICP-OES	ICP-MS	ICP-OES	ICP-MS	ICP-OES
	Detection Limit ------>			0.1	0.01	1	0.01	0.02	0.5	0.050	0.05	4	5	5	1	0.10	5	0.05	0.3	0.3	30	0.50	3	0.05	2
	Units ------>		m	%		µS/cm	°C	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm
	(NAD 83 Zone 17)																								
911	538341	5175369	0.8	NS	4.8	23	25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
939	539000	5169364	1.0	63	NM	NM	NM	0.08	2.1	0.51	3.7	12	32	3130	61	0.6	17	4.0	0.8	0.2	334[illegible]	0.25	53	2.1	13
940	539407	5169107	1.0	13	5.3	26	20	0.06	1.3	0.20	11.6	53	34	15533	135	0.1	34	6.8	0.2	0.6	558	0.25	317	3.4	34
941	539670	5169089	6.0	NS	5.9	32	20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
942	540095	5170941	7.0	15	6.0	32	21	0.06	4.3	0.32	13.8	53	27	20495	488	1.1	40	6.4	0.5	1.2	1919	0.25	390	2.0	100
943	540980	5172717	6.0	NS	6.1	32	21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
944	540130	5173124	4.0	20	4.4	24	21	0.04	1.4	0.25	5.9	22	16	6477	77	0.5	19	2.1	0.5	1.4	1340	0.25	203	0.7	51
945	538523	5173885	1.0	58	5.2	24	21	0.05	1.8	0.58	10.6	17	42	5312	205	1.1	22	4.1	1.3	1.0	3375	0.25	74	2.3	21
946	539371	5173616	2.0	16	4.5	18	20	0.08	4.7	0.30	11.2	32	43	13802	178	0.8	56	13.0	1.9	2.2	2141	0.25	316	0.9	49
947	540436	5173563	9.0	46	4.2	26	21	0.11	1.8	0.45	6.0	23	29	7380	82	0.8	19	4.3	0.8	0.2	2867	0.25	103	1.0	44
948	542298	5174457	5.0	NS	5.5	31	20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
949	540038	5174831	12.0	46	5.6	33	21	0.14	4.6	0.57	26.5	32	42	21546	444	1.4	24	6.7	0.9	1.8	4085	0.25	124	1.2	83
950	538637	5174963	14.0	46	4.9	25	21	0.15	4.2	0.59	59.3	41	51	38083	883	2.7	32	5.6	1.0	1.7	5129	0.25	155	1.5	79
951	538355	5175362	1.0	84	4.3	19	21	0.11	0.3	0.21	2.7	9	37	2198	40	0.4	14	3.9	0.2	0.7	[illegible]176	0.25	54	2.2	7
952	538275	5177301	14.0	49	5.4	31	21	0.17	5.1	0.80	14.2	39	73	10207	457	1.6	32	12.9	2.7	3.2	5261	0.25	83	1.9	79
953	538841	5176917	6.0	73	4.9	22	17	0.10	2.5	0.82	3.2	10	52	3644	82	1.4	16	2.6	0.2	0.2	5552	0.25	55	0.8	112
954	539557	5177344	8.0	62	5.1	22	20	0.18	4.0	0.61	12.4	24	56	14466	243	2.1	19	4.1	1.6	1.0	6906	0.25	73	1.2	79
955	539815	5176744	5.0	60	4.9	22	19	0.01	2.9	0.55	4.6	21	39	6057	95	1.1	17	2.8	0.8	0.2	4198	0.25	62	0.9	62
956	539628	5175900	11.0	31	5.3	32	20	0.01	4.3	0.62	27.4	47	40	35104	499	2.0	35	6.0	1.1	1.8	2261	0.25	227	1.5	114
957	540674	5175662	4.0	23	5.6	33	21	0.01	2.8	0.40	18.2	42	27	18920	265	0.8	34	4.8	0.7	1.5	2332	0.25	263	1.0	90
958	541703	5177182	29.0	NS	5.8	31	19	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
959	544215	5175212	9.0	NS	5.9	32	20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
960	544336	5174347	1.0	14	5.9	50	20	0.01	4.1	0.35	9.5	36	38	12925	131	1.3	37	5.7	1.1	1.7	4124	0.25	482	2.3	41
961	544518	5174160	3.0	60	5.7	36	20	0.03	2.9	0.64	4.1	14	45	3490	71	1.6	29	7.0	1.2	1.8	4851	0.25	119	0.8	70
962	545129	5174828	4.0	52	5.7	24	21	0.09	3.6	1.10	12.1	18	46	7228	136	1.8	24	4.0	1.1	0.7	5703	0.25	41	1.2	147
963	550596	5176074	4.0	48	5.9	36	21	0.06	2.6	0.70	7.1	27	51	7068	141	1.4	28	6.2	1.9	1.1	4738	0.25	113	1.2	70
964	553023	5173451	6.0	42	6.1	33	21	0.07	4.8	0.77	10.2	37	55	9726	204	1.8	35	9.0	2.2	2.8	5196	0.25	108	2.7	97
965	552448	5173391	2.0	37	6.0	29	21	0.02	3.1	0.86	8.7	23	43	3211	43	1.5	37	6.1	INF	INF	5472	0.25	73	1.8	91
966	551738	5173103	1.0	14	5.7	32	21	0.05	1.4	0.22	6.3	45	19	13220	209	0.4	28	8.2	0.4	0.9	944	0.25	501	0.8	33
967	551918	5172431	2.0	47	5.8	30	22	0.01	1.8	0.44	3.5	11	47	1133	15	1.3	19	123.2	0.9	1.5	4100	0.25	57	1.3	43
968	544633	5166337	1.0	41	5.3	27	22	0.01	1.7	0.45	2.1	16	28	3271	39	1.1	14	4.4	0.9	1.6	2560	0.25	54	4.3	16
969	552448	5173391	1.0	NS	5.6	34	22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
970	540433	5166310	1.0	45	5.7	34	22	0.05	2.4	0.36	6.4	22	62	3374	134	0.9	19	6.3	0.9	1.6	3586	0.25	117	3.4	16
971	539493	5166883	3.0	52	5.1	41	21	0.01	2.5	0.63	4.5	15	42	3546	58	1.3	21	3.2	0.8	1.4	4142	0.25	87	1.1	55
992	540977	5167951	15.0	24	5.8	33	21	0.10	2.3	0.40	8.9	45	35	13741	213	1.0	32	7.7	0.8	2.0	1939	0.25	261	1.6	76
993	541728	5170046	12.0	47	5.9	30	20	0.08	5.3	0.61	8.1	26	36	13974	313	1.4	26	10.1	1.3	2.4	4533	0.25	73	1.2	75
994	542470	5170989	2.0	7	5.8	32	23	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD
995	542911	5173017	1.0	44	5.2	25	24	0.25	3.0	0.48	2.5	17	28	3203	56	0.9	26	7.2	0.8	2.0	3027	0.25	36	2.2	22
996	545774	5172521	7.0	14	5.5	33	22	0.04	2.7	0.40	9.4	48	33	13304	237	1.6	33	4.6	0.7	1.4	2516	0.25	350	1.9	63
997	545040	5172020	12.0	15	5.8	33	21	0.05	2.8	0.32	7.1	40	22	14997	213	0.5	29	8.7	0.2	0.7	1437	0.25	335	1.1	62
998	544332	5171085	10.0	NS	5.9	34	22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
999	546003	5170443	5.0	49	5.8	21	21	0.06	4.0	0.67	7.5	36	36	9715	171	1.1	37	6.3	1.1	2.2	3953	0.25	205	0.8	78
1000	544113	5168521	7.0	NS	5.9	33	21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1001	545848	5168785	7.0	46	5.9	46	22	0.04	9.2	0.53	7.1	22	33	13675	223	1.8	22	3.3	1.3	0.2	3893	0.25	99	1.3	59
1002	545033	5168165	2.0	79	3.7	31	20	0.06	2.4	0.95	2.7	9	31	1227	40	2.6	19	3.9	2.0	0.7	4397	0.25	81	1.3	113
1003	544644	5167264	5.0	NS	4.2	28	22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1004	545766	5166605	8.0	NS	5.4	27	22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1005	547559	5167365	6.0	58	5.2	21	23	0.06	1.5	0.56	7.4	17	64	2527	58	1.6	25	2.8	0.9	2.1	4695	0.25	62	1.0	63
1006	547643	5168089	8.0	59	5.9	37	23	0.09	INF	0.78	5.8	21	56	6425	235	4.4	23	8.8	INF	INF	6541	0.25	52	2.3	76
1007	548329	5168923	1.0	44	6.0	54	23	0.18	4.8	1.03	5.2	21	89	4870	59	1.2	55	26.4	3.2	3.0	5371	0.25	164	3.5	80
1008	550668	5170329	2.0	48	6.0	37	24	0.09	2.8	0.72	5.7	25	37	5864	122	0.6	26	7.8	1.2	1.0	3620	0.25	165	0.7	94
1009	552867	5170298	2.0	53	5.8	26	24	0.08	3.9	0.65	8.6	25	39	6789	75	1.0	32	4.5	1.0	0.2	4294	0.25	49	2.5	79
1010	552360	5170494	6.0	64	5.1	26	19	0.08	1.4	0.80	1.9	2	35	2302	50	1.4	14	1.8	0.8	0.8	4551	0.25	47	1.0	100
1011	553676	5171801	0.5	53	5.3	29	23	0.08	2.7	0.55	4.4	18	39	5086	68	0.8	31	8.1	1.7	2.0	4413	0.25	102	2.1	27
1012	553958	5172522	NM	45	5.3	28	22	0.07	2.3	0.57	5.0	10	25	2622	49	0.7	24	8.8	0.7	0.2	4290	0.25	69	1.4	52
1013	554550	5173877	4.0	49	5.5	29	23	0.06	2.9	0.88	7.3	30	36	6496	189	1.3	25	8.1	1.4	0.9	3993	0.25	88	4.2	83
1014	556091	5175381	6.0	62	5.7	30	23	0.13	4.0	0.89	8.3	21	38	4787	159	1.9	23	11.0	1.0	0.2	5276	0.25	79	4.0	70
1015	556174	5176137	2.0	63	5.3	28	23	0.05	1.4	0.77	4.7	8	25	1886	76	0.8	20	17.0	0.2	0.2	5137	0.25	45	1.5	80
1016	555746	5177581	3.0	31	5.6	32	23	0.04	2.3	0.71	6.5	24	33	6046	169	1.3	23	3.4	1.1	0.6	3554	0.25	60	1.6	77
1017	556307	5177424	5.0	25	6.0	37	22	0.11	4.0	0.53	9.4	42	33	13222	285	0.9	34	4.8	1.8	2.6	2373	0.25	125	1.8	80
1018	556914	5176059	2.0	52	5.6	33	25	0.03	1.3	0.40	1.9	9	24	1141	19	1.6	18	2.7	INF	INF	3994	0.25	52	2.0	41
1019	557827	5176643	5.0	51	5.8	41	25	0.20	3.3	1.12	3.9	17	54	5559	60	3.5	21	3.1	1.0	0.2	7297	0.25	58	1.8	125
1020	557893	5175802	1.0	62	5.3	27	22	0.06	3.9	1.06	5.6	18	39	5973	105	1.2	31	12.4	1.3	0.7	7654	0.25	82	7.1	51
1021	558111	5174888	6.0	58	5.0	21	22	0.08	2.0	0.74	3.7	26	34	4933	75	1.1	25	4.6	0.2	0.2	4041	0.25	112	3.4	76
1022	556549	5174202	1.0	62	5.3	28	24	0.03	2.1	0.27	2.3	8	33	1219	27	1.8	17	1.2	0.9	0.2	4227	0.25	53	1.2	30
1023	555750	5173958	3.0	61	5.4	29	24	0.04	1.1	0.41	2.3	5	40	1390	31	1.1	13	2.3	1.8	0.8	3828	0.25	39	1.0	40
1024	555350	5172226	11.0	53	5.8	22	22	0.11	2.6	0.63	7.7	27	60	6852	145	1.0	31	10.8	3.6	2.6	5630	0.25	91	1.1	60
1025	555848	5171041	4.0	58	5.5	20	23	0.08	2.2	0.52	7.2	17	50	2459	38	1.3	30	2.8	2.1	0.7	3735	0.25	80	1.0	54
1026	555043	5171023	28.0	55	5.7	22	22	0.19	7.3	1.04	13.6	24	81	13924	281	1.6	36	24.0	4.3	2.2	8740	0.68	91	0.9	73
1027	554147	5168728	1.0	NS	5.8	24	25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1028	551654	5164986	3.0	24	5.8	40	20	0.04	4.0	0.67	7.8	28	18	8931	247	0.7	22	14.1	1.6	1.9	2331	0.25	168	0.7	54
1029	549934	5165014	1.0	NS	5.4	28	25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1031	538379	5166140	7.0	78	5.2	18	22	0.05	2.1	0.90	3.0	11	29	5762	131	1.2	13	2.1	0.2	0.2	4233	0.25	47	0.6	127
1032	538867	5164351	7.0	32	4.9	23	27	0.12	5.1	0.49	13.5	58	88	17669	178	0.3	81	13.1	2.6	1.0	2596	0.52	298	6.0	44
1515	538476	5160855	3.0	64	5.9	28	27	0.06	1.9	0.52	2.6	10	36	3356	64	1.6	15	2.6	1.4	0.7	3888	0.25	100	1.3	33
1566	597734	5193555	1.0	47	7.3	45	23	0.08	2.0	0.53	6.7	35	36	7296	83	1.6	35	6.0	INF	INF	6483	0.25	157	2.1	[illegible]
1567	598919	5195304	10.0	36	7.3	38	24	0.09	2.5	0.43	8.4	49	27	14194	219	0.7	28	7.9	0.8	1.8	2575	0.25	190	1.5	80
1568	599574	5196012	7.0	51	7.3	101	24	0.17	10.0	0.37	3.6	24	100	6820	108	4.6	16	5.7	3.1	1.1	11699	0.25	63	6.9	85
1569	600199	5197122	7.0	88	7.1	14	24	0.07	1.3	1.13	1.1	9	14	2064	164	0.7	7	2.9	0.2	0.2	3441	0.25	80	0.2	132
1570	601127	5197598	5.0	32	7.0	56	24	0.05	1.8	0.50	7.5	38	22	12057	208	0.6	26	5.4	0.7	1.4	2850	0.25	221	1.3	57
1571	601740	5196537	8.0	30	7.3	47	24	0.10	1.9	0.51	7.4	41	22	13228	371	0.8	23	3.4	0.6	1.8	2589	0.25	134	2.1	83
1572	604976	5197269	1.0	69	7.0	46	23	0.11	5.3	1.62	5.3	26	23	4313	402	0.9	29	25.5	0.2	0.2	8053	0.25	46	2.8	72
1573	605500	5196949	5.0	59	7.0	35	24	0.11	2.3	0.72	4.5	24	25	5596	170	0.6	19	12.5	0.4	2.1	4505	0.25	91	2.3	64
1574	606448	5197413	6.0	48	7.1	37	25	0.12	1.9	0.66	6.9	39	28	8651	220	0.8	23	4.9	0.7	2.3	2911	0.25	154	4.0	80
1575	605697	5198298	6.0	40	7.1	59	24	0.20	1.4	0.68	6.9	35	25	9417	183	0.4	23	4.6	0.6	2.1	2805	0.25	144	1.8	75
1576	607868	5200057	3.0	45	7.3	49	24	0.14	1.6	1.08	9.6	33	20	9555	226	0.1	27	5.1	0.6	1.9	2730	0.25	138	3.2	97
1577	608747	5201537	1.0	NS	7.0	33	24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1578	610897	5201531	1.0	49	6.6	49	24	0.19	0.6	0.71	3.0	25	22	3738	47	0.4	21	6.0	0.8	2.3	4266	0.25	74	2.7	26
1579	611920	5202470	4.0	49	6.8	42	24	0.23	3.2	0.87	11.8	56	55	9953	313	1.7	43	4.7	1.4	2.9	5820	0.25	162	5.3	111
1580	611302	5202955	3.0	64	6.9	41	24	0.07	1.2	0.54	2.4	14	26	1355	24	1.1	27	4.9	INF	INF	4190	0.88	70	1.1	29
1581	612682	5203318	15.0	49	7.0	42	24	0.27	1.9	0.65	9.6	39	33	9652	327	1.1	21	7.4	0.6	2.0	3527	0.25	148	2.5	81
1582	613604	5202084	3.0	54	7.0	43	24	0.14	1.6	0.83	7.7	41	40	6884	164	1.4	31	4.5	0.7	2.0	5923	0.25	266	3.3	99
1583	613808	5203437	11.0	57	7.1	34	24	0.20	1.9	0.73	7.6	37	42	10760	248	1.4	28	5.9	0.2	0.2	6168	0.25	107	1.9	68
1584	613570	5205394	11.0	38	6.7	NM	24	0.21	1.9	0.38	9.6	43	26	12252	279	0.8	25	6.3	0.6	2.1	2343	0.25	205	2.0	76
1585	612931	5205653	2.0	58	6.9	37	24	0.14	1.3	0.44	2.2	14	35	1964	41	1.3	16	2.6	0.2	0.2	3922	0.25	51	1.3	39
1586	612586	5205106	4.0	55	6.7	33	24	0.19	1.3	0.49	2.5	21	35	3525	54	1.1	19	4.7	0.2	0.2	4755	0.25	56	1.3	61

Site	Easting	Northing	Lake	LOI	pH	Cond	Temp	Ag	As	Cd	Co	Cr	Cu	Fe	Mn	Mo	Ni	Pb	Pd	Pt	S	Sn	Ti	U	Zn
Number	Method——→		Depth	Grav	YSI	YSI	YSI	ICP-MS	INAA	ICP-MS	ICP-MS	ICP-OES	ICP-OES	ICP-OES	ICP-OES	ICP-MS	ICP-OES	ICP-MS	FA/ICPMS	FA/ICPMS	ICP-OES	ICP-MS	ICP-OES	ICP-MS	ICP-OES
	Detection Limit——→			0.1	0.01	1	0.01	0.02	0.5	0.050	0.05	4	5	5	1	0.10	5	0.05	0.3	0.3	30	0.50	3	0.05	2
	Units——→		m	%		µS/cm	°C	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm
	(NAD 83 Zone 17)																								
1587	611223	5204147	8.0	43	6.9	47	25	0.25	2.2	0.75	10.4	42	27	14012	433	0.9	23	6.9	0.6	2.2	2604	0.25	155	2.5	80
1588	611516	5205470	3.0	50	6.9	43	24	0.22	1.4	0.34	5.3	28	33	6452	128	1.1	22	5.2	0.5	2.1	3670	0.25	100	1.4	49
1589	612191	5206735	2.0	71	5.6	32	19	0.12	0.9	0.26	1.8	10	29	2807	69	1.3	13	2.3	0.2	0.2	3493	0.25	57	0.9	36
1590	612052	5206416	8.0	67	5.8	29	22	0.20	1.4	0.54	1.9	13	50	5423	98	2.6	1[illegible]	3.7	0.6	2.4	4633	0.25	61	0.8	60
1591	612568	5207762	5.0	56	6.2	32	24	0.15	1.6	0.29	3.6	21	47	2967	55	1.5	19	3.8	0.8	2.0	5191	0.25	69	1.3	53
1592	613440	5208102	10.0	38	6.6	42	24	0.14	0.9	0.37	9.5	42	19	10579	244	0.6	25	6.1	0.4	1.8	2405	0.25	167	2.0	67
1593	613381	5208991	5.0	60	7.1	65	24	0.26	6.1	0.50	24.7	42	78	39729	303	3.4	22	5.5	1.5	2.8	10754	0.25	82	1.5	84
1594	613388	5210101	4.0	47	7.2	38	24	0.14	1.5	0.50	7.3	36	42	6192	106	1.2	24	5.1	0.6	2.1	3369	0.25	109	1.6	52
1595	612654	5212194	13.0	57	6.7	34	24	0.21	2.5	1.12	9.4	29	94	19704	235	5.8	27	3.7	1.4	3.1	11791	0.25	152	5.0	141
1596	613430	5212814	3.0	44	7.0	39	24	0.26	4.7	1.02	40.4	61	47	48545	8418	3.4	43	11.8	1.0	2.2	2567	0.25	188	3.1	148
1597	615049	5214734	4.0	46	7.0	36	25	0.16	2.2	0.58	7.3	34	39	7730	158	0.8	31	12.8	0.8	2.1	3481	0.25	193	1.8	79
1598	614460	5217695	2.0	59	7.0	47	25	0.15	2.7	0.55	8.8	32	58	5434	84	2.0	31	6.9	INF	INF	5395	0.25	111	2.3	84
1599	613279	5216519	1.0	59	7.1	47	25	0.16	2.8	0.97	9.1	29	59	6212	51	2.5	31	10.3	1.0	0.8	8443	0.25	92	2.5	93
1600	611808	5216438	17.0	37	7.3	83	23	0.13	3.5	0.66	13.0	43	49	11254	430	1.4	26	5.4	1.3	2.4	4124	0.25	101	3.3	112
1601	611482	5214807	16.0	40	7.4	84	23	0.11	2.4	0.74	9.2	38	41	10040	288	0.9	23	7.9	1.4	3.7	2927	0.25	131	3.0	95
1602	611983	5213515	2.0	43	7.2	54	25	0.10	1.9	0.32	3.8	21	48	3979	49	3.7	20	5.9	0.6	0.2	4483	0.25	127	2.8	30
1603	610157	5212974	1.0	68	7.1	54	25	0.04	1.6	0.26	2.5	11	23	1137	27	1.9	13	2.1	0.2	0.2	5121	0.25	68	1.6	29
1604	610281	5212149	2.0	63	7.0	44	25	0.06	2.3	0.28	3.9	11	24	1892	38	1.2	15	5.3	INF	INF	4821	0.25	77	0.7	43
1605	610360	5210113	6.0	43	7.1	57	25	0.20	2.0	0.36	7.9	41	41	9194	231	1.2	19	3.6	0.6	0.6	3139	0.25	112	2.0	67
1606	611802	5210942	1.0	43	7.1	46	25	0.16	1.5	0.57	10.3	54	22	6892	330	0.9	27	5.6	0.2	0.2	2684	0.25	149	2.7	40
1607	611060	5209894	4.0	51	6.9	47	24	0.18	1.4	0.79	5.4	32	38	4999	153	1.1	17	4.5	0.2	0.2	3737	0.25	64	1.3	56
1608	611004	5208684	16.0	51	6.9	35	24	0.28	2.0	0.38	15.2	63	38	12766	573	1.3	28	9.1	0.2	0.6	3322	0.25	128	1.4	56
1609	609414	5208307	8.0	67	6.5	34	24	0.12	1.4	0.39	2.8	11	37	3941	93	2.2	11	3.8	INF	INF	4290	0.25	59	0.7	40
1610	610881	5206650	1.0	58	6.5	31	25	0.15	1.4	0.64	6.6	30	32	5547	216	1.4	20	7.0	0.2	0.2	3542	0.25	103	1.6	54
1611	609929	5204664	12.0	40	6.8	49	25	0.23	1.8	0.57	15.4	39	23	18606	622	0.7	22	10.3	0.2	0.2	2371	0.25	152	2.5	94
1612	608384	5203793	16.0	52	6.8	33	24	0.25	1.9	0.19	10.3	17	32	12604	601	1.4	15	8.2	0.2	0.2	4070	0.25	75	2.8	56
1613	607260	5203258	2.0	55	6.5	33	23	0.06	1.7	0.42	3.6	8	21	2391	80	1.5	16	8.3	0.2	0.2	4763	0.25	39	3.2	54
1614	607282	5204128	1.0	68	6.9	54	25	0.07	1.3	0.51	3.1	20	24	3453	43	2.2	18	2.1	INF	INF	5289	0.25	107	3.6	53
1615	607368	5204877	1.0	59	6.8	42	24	0.11	1.6	0.52	2.2	16	33	2629	58	0.4	15	5.5	0.2	0.2	3925	0.25	51	8.8	16
1616	606042	5206322	15.0	30	7.2	94	24	0.13	2.6	0.14	7.9	48	41	13899	240	0.9	27	5.9	1.2	0.9	2227	0.25	179	2.4	82
1617	604615	5204125	7.0	59	7.5	34	24	0.12	1.6	0.55	4.7	19	27	3228	157	1.4	17	5.6	0.2	0.2	3987	0.25	53	14.8	51
1618	604237	5205178	3.0	54	7.2	47	25	0.09	2.2	0.60	6.9	22	26	4695	118	0.7	22	9.3	0.2	0.2	3919	0.25	60	3.7	69
1619	603529	5203864	1.0	55	7.2	40	25	0.08	2.8	0.61	10.8	29	28	6037	149	1.1	28	8.6	0.6	0.6	4345	0.58	82	4.9	71
1620	602344	5204595	25.0	24	7.4	93	2[illegible]	0.25	6.2	1.03	10.0	58	78	18058	695	2.0	38	6.0	2.4	2.6	1753	0.25	134	4.8	131
1621	601694	5204462	27.0	34	7.6	95	23	0.34	7.9	1.19	13.7	46	67	26052	1686	3.4	34	12.1	1.5	1.1	2433	0.25	105	3.2	169
1622	598898	5204560	5.0	63	7.7	52	25	0.26	3.0	0.70	8.7	29	47	5410	85	1.5	28	9.8	INF	INF	5133	0.25	89	1.4	101
1623	599570	5203768	1.0	57	7.5	36	24	0.18	2.1	0.70	9.3	30	38	5665	[illegible]5	1.0	35	7.5	INF	INF	4990	0.25	89	1.1	113
1624	601717	5203045	27.0	18	7.5	93	23	0.20	4.5	1.00	12.1	58	72	20534	1141	1.5	40	7.9	2.1	2.7	1350	0.25	286	3.5	110
1625	602396	5202518	3.0	44	7.6	41	24	0.06	1.1	0.38	6.4	25	22	5149	162	0.7	19	5.3	0.2	0.2	2865	0.25	62	1.5	46
1626	602769	5200721	11.0	NS	7.5	95	24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1627	601626	5201443	15.0	14	7.6	94	23	0.12	2.8	0.27	9.4	44	33	15632	366	0.8	30	4.3	1.1	1.4	1151	0.25	237	2.6	90
1628	600405	5201110	4.0	51	7.5	22	24	0.10	1.2	0.66	6.5	25	28	4050	68	0.6	21	4.2	0.6	2.1	3262	0.25	96	0.6	67
1629	600387	5202109	2.0	64	6.6	20	24	0.28	1.8	0.86	7.1	24	36	2691	72	1.2	27	4.3	0.2	0.2	4266	0.25	77	0.6	85
1630	599415	5202395	7.0	27	6.7	48	25	0.07	1.8	0.60	8.3	39	25	11958	353	0.9	25	5.2	0.9	2.6	2721	0.25	255	1.9	82
1631	598981	5202026	10.0	51	6.9	NM	24	0.18	2.3	0.95	6.7	40	42	7267	287	1.2	24	10.7	0.9	0.9	4501	0.25	101	2.5	83
1632	598138	5200457	1.0	54	7.7	67	24	0.14	1.6	0.60	3.3	12	25	1831	34	1.7	20	2.5	0.2	0.2	4965	0.25	56	4.2	56
1633	599006	5200061	14.0	22	7.6	48	24	0.11	1.7	0.46	7.8	41	22	14609	408	1.1	25	3.9	0.8	0.7	1794	0.25	182	1.7	82
1634	598313	5199958	4.0	58	7.2	53	24	0.26	2.4	0.73	5.6	23	29	7876	136	1.9	21	10.2	0.8	0.7	5933	0.25	63	5.5	78
1635	599081	5199577	10.0	54	7.2	50	24	0.16	2.5	0.71	6.4	38	32	9522	262	1.5	28	6.9	INF	INF	4053	0.25	103	2.5	85
1636	600911	5199244	10.0	NS	7.5	94	23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1637	602275	5198126	3.0	57	7.7	73	25	0.11	2.2	0.47	4.9	29	44	5770	73	1.5	24	3.3	0.8	0.2	6301	0.25	112	3.5	75
1638	599995	5197863	8.0	26	7.6	97	23	0.09	3.8	0.79	13.6	34	43	11387	438	1.2	23	3.6	1.3	1.9	6591	0.25	178	2.3	103
1639	580076	5205709	32.0	5	7.6	103	23	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD
1640	578358	5205043	1.0	59	7.3	69	25	0.14	1.9	0.50	4.4	19	49	3760	45	2.9	30	2.2	0.7	0.2	6624	0.25	86	3.7	51
1641	576424	5205588	1.0	42	7.4	68	26	0.05	2.4	0.42	4.2	24	31	11189	121	2.4	20	3.7	1.6	1.9	12795	0.25	175	7.2	53
1642	575127	5206216	4.0	47	7.5	76	25	0.12	4.1	0.69	7.5	49	52	12228	435	7.7	36	5.9	1.7	2.6	8013	0.25	175	10.0	80
1643	574449	5206603	2.0	55	7.4	77	26	0.06	4.3	0.59	3.7	32	67	9474	145	3.6	34	5.0	1.3	1.9	10814	0.25	140	6.1	75
1644	574265	5207382	1.0	61	7.4	75	26	0.10	2.0	0.65	5.6	23	33	8696	54	1.7	26	8.1	INF	INF	15382	0.25	91	11.1	92
1645	574176	5207993	1.0	59	7.3	47	27	0.08	1.8	0.66	4.9	12	29	2365	55	1.3	21	5.3	0.2	0.2	5789	0.25	55	2.8	103
1646	572314	5207990	1.0	65	7.0	40	27	0.15	3.4	0.98	5.8	13	56	2440	108	1.0	31	21.7	2.7	7.5	6066	0.50	65	0.7	103
1647	572489	5208024	7.0	61	6.9	42	25	0.13	4.7	0.66	6.4	30	71	9585	218	1.7	24	8.3	2.0	2.9	6460	0.25	96	1.0	79
1648	571847	5209735	8.0	55	7.1	42	25	0.14	2.6	0.69	6.1	14	50	5074	213	2.1	17	5.1	1.4	2.3	6041	0.25	38	0.9	91
1649	571353	5210247	9.0	47	7.1	37	25	0.14	6.5	1.34	17.4	27	70	23203	528	2.0	40	22.1	INF	INF	5275	0.25	131	0.8	151
1650	569897	5211117	22.0	16	7.3	68	24	0.10	6.6	0.82	9.3	47	59	15883	537	1.8	35	6.9	2.0	1.8	1406	0.25	292	3.3	92
1651	568099	5212605	10.0	NS	7.4	66	24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1652	566475	5214153	5.0	54	7.3	42	26	0.11	2.4	0.87	7.5	41	48	7884	161	1.1	23	4.4	2.0	3.1	5418	0.25	79	1.5	76
1653	564736	5212734	4.0	NS	7.3	67	23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1654	564504	5213906	7.0	65	6.9	30	26	0.07	2.2	0.70	4.1	25	41	3648	83	0.9	22	5.1	1.7	1.5	4480	0.25	59	0.7	49
1655	564199	5213665	7.0	58	5.9	25	26	0.07	1.8	0.80	4.9	43	36	5999	67	0.7	25	4.5	2.8	1.9	4176	0.25	75	0.9	63
1656	563343	5213944	6.0	48	6.2	28	25	0.11	3.2	0.40	8.9	28	31	13372	188	1.1	17	9.5	0.9	2.1	2934	0.25	82	1.8	43
1657	562777	5214373	5.0	58	5.4	24	25	0.08	2.6	0.67	12.2	31	32	17288	72	1.0	23	5.9	INF	INF	4463	0.25	64	1.2	86
1658	561851	5215064	2.0	53	5.2	23	26	0.07	2.4	0.45	5.9	18	29	3427	45	1.2	25	5.1	0.6	0.2	3551	0.25	85	2.0	26
1659	562586	5215790	3.0	49	4.9	NM	26	0.08	3.0	0.45	6.2	20	30	3917	58	1.4	23	7.3	0.7	0.8	4465	0.25	75	2.5	46
1660	563832	5215115	9.0	43	6.0	35	26	0.12	3.3	0.39	4.4	25	30	11320	93	1.2	16	9.0	0.8	2.3	3011	0.25	82	1.7	35
1661	564044	5215235	2.0	46	5.1	31	26	0.06	1.3	0.26	3.5	12	35	1708	28	1.4	19	3.1	1.1	2.3	3301	0.25	73	3.6	17
1662	563945	5216165	4.0	38	4.8	28	26	0.08	2.3	0.33	3.6	22	25	4702	70	0.7	13	4.3	0.5	1.7	2043	0.25	79	1.8	25
1663	563696	5216656	3.0	39	4.6	29	26	0.10	2.7	0.33	4.2	23	26	5812	93	0.7	12	5.8	0.8	2.3	1903	0.25	105	1.6	21
1664	565755	5215958	1.0	43	4.8	37	27	0.13	1.7	0.58	3.6	21	41	3233	65	0.6	22	14.7	1.1	1.9	3422	0.25	79	1.8	48
1665	566210	5216083	12.0	29	6.3	65	24	0.09	12.0	0.41	8.1	54	46	30728	254	2.0	29	7.8	2.2	2.7	2184	0.25	199	3.9	91
1666	566626	5216262	5.0	66	6.5	30	27	0.08	1.6	0.39	2.6	7	39	2272	60	1.4	12	2.4	INF	INF	4900	0.25	48	0.9	46
1667	566930	5217930	38.0	NS	6.7	66	24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1668	565490	5219198	12.0	NS	7.0	65	23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1669	564188	5217535	5.0	57	5.1	32	25	0.07	1.0	0.35	2.7	16	34	3634	75	0.9	12	2.7	0.7	2.3	2520	0.25	42	1.6	13
1670	563717	5217246	1.0	NS	4.8	25	25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1671	562601	5217190	2.0	49	5.1	28	26	0.06	2.5	0.59	4.9	21	28	1651	7	1.4	26	4.6	0.6	1.0	4454	0.25	53	2.9	33
1672	563302	5218774	4.0	44	4.9	28	25	0.06	1.7	0.54	10.2	32	30	8335	99	0.8	25	3.9	0.9	0.8	3313	0.25	64	1.9	71
1673	563333	5219562	4.0	68	4.5	33	26	0.07	2.1	0.68	5.9	18	31	4096	77	0.8	25	5.9	2.5	2.2	4173	0.25	45	1.1	67
1674	562965	5219390	1.0	48	4.9	29	26	0.06	1.9	0.33	3.1	13	21	3770	55	0.6	18	3.5	0.6	2.3	2790	0.25	52	1.7	28
1675	561705	5219533	4.0	48	4.4	32	26	0.07	1.9	0.39	3.0	21	22	3186	42	0.5	15	4.8	0.2	0.7	2747	0.25	71	1.5	24
1676	561430	5219684	5.0	46	4.6	27	25	0.06	3.8	0.49	6.7	30	25	11404	138	0.6	22	6.8	0.7	2.4	2668	0.25	99	2.2	39
1677	561706	5220107	1.0	53	4.5	38	26	0.06	2.2	0.51	6.9	20	28	2270	31	1.4	31	2.8	INF	INF	4218	0.25	73	2.7	40
1678	562315	5221473	9.0	48	5.4	24	25	0.12	2.8	0.59	12.6	37	46	8824	204	1.3	20	8.5	0.7	1.0	3572	0.25	95	3.4	52
1679	562180	5223520	15.0	49	4.8	23	25	0.07	1.5	0.58	7.5	30	43	6073	95	0.7	18	6.3	0.8	2.5	2887	0.25	84	3.1	40
1680	561620	5223283	9.0	44	4.9	23	24	0.09	2.2	0.44	13.3	29	29	9758	140	0.6	17	7.3	0.7	0.2	2511	0.25	69	2.9	36
1681	560988	5223563	5.0	51	4.7	27	26	0.07	2.4	0.42	5.0	13	37	4279	54	0.9	13	4.7	0.8	2.2	3367	0.25	47	3.1	29
1682	561454	5224507	4.0	25	5.0	24	25	0.07	9.3	0.59	34.2	42	58	21427	223	1.8	34	5.3	1.5	2.6	2807	0.25	184	5.6	104

Site	Easting	Northing	Lake	LOI	pH	Cond	Temp	Ag	As	Cd	Co	Cr	Cu	Fe	Mn	Mo	Ni	Pb	Pd	Pt	S	Sn	Ti	U	Zn
Number	Method------>		Depth	Grav	YSI	YSI	YSI	ICP-MS	INAA	ICP-MS	ICP-MS	ICP-OES	ICP-OES	ICP-OES	ICP-OES	ICP-MS	ICP-OES	ICP-MS	FAICPMS	FAICPMS	ICP-OES	ICP-MS	ICP-OES	ICP-MS	ICP-OES
	Detection Limit------>			0.1	0.01	1	0.01	0.02	0.5	0.050	0.05	4	5	5	1	0.10	5	0.05	0.3	0.3	30	0.50	3	0.05	2
	Units------>		m	%		µS/cm	°C	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm
	(NAD 83 Zone 17)																								
1683	560736	5225776	5.0	56	5.0	24	26	0.08	3.0	0.54	4.0	20	37	5516	61	1.1	18	4.1	0.2	0.2	4281	0.25	56	2.7	51
1684	560312	5224732	2.0	32	4.7	28	27	0.05	1.9	0.31	2.6	11	16	2625	39	0.4	15	5.6	0.6	1.5	1956	0.25	55	2.0	16
1685	558669	5223908	2.0	52	4.5	31	26	0.05	1.3	0.47	2.8	17	18	2430	33	1.5	27	3.9	0.5	1.8	3096	0.25	73	3.9	30
1686	558007	5222913	1.0	68	4.9	29	26	0.07	3.4	0.85	12.0	33	26	9709	65	2.1	45	6.4	INF	INF	5893	0.25	107	3.9	78
1687	559470	5223020	12.0	50	4.8	26	24	0.10	2.7	0.57	6.4	32	27	8217	212	0.9	19	8.5	0.8	2.4	3958	0.25	70	3.0	59
1688	559948	5222250	5.0	41	4.7	32	25	0.06	1.4	0.41	3.6	20	19	3286	58	0.9	16	3.2	0.5	1.8	2976	0.25	58	2.6	32
1689	560721	5221743	2.0	45	4.9	28	26	0.05	3.1	0.68	19.8	26	34	6116	82	1.2	29	5.5	0.8	2.0	3600	0.25	74	4.3	56
1690	557759	5221809	8.0	43	5.0	23	24	0.06	3.9	0.66	9.1	37	21	9425	93	1.2	22	6.3	0.6	1.7	2866	0.25	84	3.9	70
1691	557909	5221121	3.0	55	4.6	29	25	0.08	2.4	0.82	6.9	32	24	2836	37	0.9	29	5.9	2.8	1.7	3863	0.25	88	2.8	59
1692	558448	5221277	2.0	31	4.5	32	26	0.07	0.7	0.17	2.0	25	14	3025	32	0.2	13	5.8	0.3	1.4	1675	0.25	65	2.5	16
1693	558638	5221293	2.0	53	4.5	32	26	0.08	1.4	0.46	2.2	23	20	1984	30	0.9	22	6.8	0.6	2.0	3031	0.25	79	2.0	23
1694	559355	5220623	5.0	46	4.8	27	26	0.08	2.4	0.43	8.0	28	29	5262	68	0.6	23	6.6	0.6	1.5	2930	0.25	82	2.4	35
1695	560292	5220832	7.0	45	4.9	25	25	0.10	5.1	0.57	27.4	35	38	11774	203	1.1	21	8.6	1.0	1.7	2954	0.25	94	3.9	51
1696	560515	5219587	2.0	67	4.3	33	26	0.06	1.6	0.54	3.2	18	23	1723	24	0.8	22	3.5	INF	INF	3387	0.25	68	1.2	40
1697	560622	5219241	2.0	68	4.3	39	26	0.07	1.4	0.70	5.2	24	30	1515	35	1.1	33	4.6	INF	INF	4245	0.25	66	2.3	49
1698	561199	5219368	1.0	60	4.2	59	28	0.05	1.6	0.40	3.5	19	19	2110	35	0.5	22	7.0	3.3	2.0	3174	0.25	73	1.9	11
1699	561231	5218502	1.0	36	4.4	40	27	0.07	2.7	0.24	3.3	24	25	4910	30	0.7	22	7.8	0.6	0.9	2782	0.25	60	3.3	11
1700	560622	5218835	10.0	53	4.4	34	24	0.24	6.5	1.18	7.9	28	48	5363	63	0.9	42	33.4	2.1	2.1	5970	1.33	79	2.5	82
1701	560017	5217123	1.0	38	4.3	40	28	0.05	1.4	0.20	3.0	13	19	2278	30	0.5	14	7.4	0.5	1.2	2238	0.25	62	2.4	10
1702	561479	5217216	9.0	48	4.6	30	26	0.08	2.8	0.67	4.9	29	27	4207	86	0.9	18	5.9	1.0	0.8	3383	0.25	58	1.9	58
1703	560182	5215931	1.0	NS	4.8	25	27	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1704	560420	5214750	5.0	57	4.5	26	24	0.11	3.5	0.81	3.2	30	33	7961	65	0.9	19	8.9	0.8	2.2	3501	0.25	145	3.4	34
1705	560659	5214115	13.0	32	5.5	26	25	0.09	4.1	0.43	14.8	36	24	17194	271	1.4	20	7.1	0.6	2.0	2040	0.25	135	2.2	57
1706	561407	5214638	7.0	29	5.8	27	25	0.07	3.8	0.48	14.3	38	22	19078	266	1.2	23	6.1	0.6	1.0	1893	0.25	147	2.3	63
1707	560849	5213042	3.0	49	5.8	29	26	0.08	2.3	0.50	8.2	34	44	10100	80	1.6	27	4.0	INF	INF	3433	0.86	75	2.4	64
1708	562355	5211830	3.0	54	6.0	34	27	0.14	9.2	0.56	5.4	17	85	2571	47	2.5	25	8.5	2.0	1.5	4870	0.25	57	2.8	74
1709	562798	5212291	4.0	48	6.0	22	27	0.12	1.8	0.34	3.9	20	40	4106	76	1.5	18	4.8	1.4	1.0	3561	0.25	67	2.1	42
1710	563391	5212606	10.0	43	6.2	29	26	0.14	6.5	0.81	18.7	38	38	19889	342	1.6	31	20.6	1.5	1.2	5206	0.61	116	1.9	78
1711	565343	5210972	8.0	46	6.4	66	25	0.12	12.0	0.49	7.6	36	126	14411	286	7.3	40	6.9	INF	INF	12559	0.25	175	4.8	58
1712	565324	5210254	37.0	30	6.7	67	24	0.15	14.0	1.22	15.7	47	84	23560	1878	3.7	44	11.0	3.0	2.1	2582	0.25	99	4.3	148
1713	566491	5209756	3.0	58	6.8	32	26	0.10	5.1	0.62	11.8	23	43	6841	154	2.3	26	3.6	INF	INF	4705	0.25	63	1.6	83
1714	567227	5210861	9.0	55	6.7	27	25	0.12	4.4	0.69	9.2	31	60	5913	381	1.4	22	9.2	1.4	1.4	4296	0.25	61	2.0	78
1715	567664	5210612	2.0	50	6.6	28	27	0.07	3.1	0.39	4.7	11	40	2812	96	1.3	25	6.4	1.0	0.9	4853	0.25	66	1.4	34
1716	568191	5210516	4.0	45	6.6	30	26	0.15	3.6	0.50	8.8	28	46	8396	190	1.4	26	5.4	1.1	1.1	3337	0.25	84	1.8	72
1717	567979	5209682	7.0	56	6.6	27	27	0.21	4.6	0.64	6.4	15	43	8608	241	2.0	18	15.8	0.2	0.2	6989	0.25	64	0.9	69
1718	569519	5208094	18.0	NS	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1719	571743	5207073	14.0	15	6.9	46	26	0.04	1.6	0.29	4.9	24	20	9421	164	0.5	21	7.0	1.5	1.0	1781	0.25	317	0.6	41
1720	571623	5205792	3.0	46	6.9	69	26	0.07	6.0	0.43	3.7	32	77	10412	104	3.1	36	4.1	INF	INF	9436	0.25	185	2.4	60
1721	573440	5204263	15.0	20	7.0	74	24	0.07	4.2	0.32	5.8	39	34	14032	242	1.3	25	4.7	1.2	1.1	1890	0.25	213	2.3	66
1722	592800	5191989	6.0	NS	7.5	61	25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1723	591622	5190766	12.0	52	7.4	52	26	0.39	2.8	1.07	6.9	40	63	8381	356	1.0	20	8.7	INF	INF	3498	0.25	118	1.5	104
1724	590194	5189870	3.0	57	7.3	67	27	0.20	3.2	0.74	3.9	20	34	3764	162	0.9	20	8.5	0.2	0.6	4830	0.25	68	0.7	63
1725	588596	5188786	2.0	54	7.4	47	27	0.16	2.7	0.87	7.5	35	44	8804	152	1.3	31	7.7	0.8	0.7	4283	0.25	150	2.4	98
1726	587362	5187295	1.0	68	7.1	54	28	0.12	2.1	0.53	3.7	16	35	2253	30	1.9	19	3.6	INF	INF	5038	0.25	91	4.0	58
1727	587164	5186614	2.0	49	7.1	61	28	0.15	3.5	0.54	8.0	28	46	6951	160	1.9	22	4.2	0.7	0.7	3901	0.25	121	2.9	82
1728	586624	5186114	1.0	61	7.1	46	27	0.11	3.6	0.69	5.1	15	39	3641	101	1.4	24	8.6	1.1	0.2	5113	0.25	89	1.8	69
1729	584233	5183145	15.0	16	7.3	72	25	0.17	3.6	0.38	12.5	67	30	29945	537	0.7	43	9.3	0.9	1.2	1124	0.25	420	1.9	98
1730	583412	5182490	1.0	68	7.3	32	29	0.12	1.7	0.63	3.0	20	32	3388	53	0.6	19	6.0	0.2	0.2	3456	0.25	74	2.3	64
1731	583259	5182131	5.0	38	7.1	39	26	0.20	3.1	0.63	7.6	39	36	12099	201	0.8	29	9.0	0.9	2.2	3606	0.25	248	1.5	80
1732	578135	5179233	1.0	50	6.9	38	29	0.12	1.2	0.61	6.0	23	17	5573	157	0.6	18	5.9	0.4	1.4	2897	0.25	131	1.9	29
1733	574251	5178610	9.0	57	5.9	25	26	0.18	2.9	0.64	3.9	21	33	7111	140	1.3	20	8.1	0.2	0.2	5778	0.25	80	1.9	66
1734	574826	5180135	1.0	NS	6.1	28	26	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1735	573432	5179585	10.0	45	6.5	54	26	0.23	5.5	0.88	11.3	39	38	11544	374	2.1	23	10.8	1.3	0.8	3676	0.25	142	5.7	100
1736	570593	5180188	11.0	64	5.8	23	26	0.17	INF	0.71	7.9	26	48	13318	224	3.5	24	8.9	INF	INF	7955	0.25	84	3.3	94
1737	569777	5180559	3.0	66	6.0	24	27	0.10	INF	0.72	10.5	26	27	4788	93	1.9	24	4.4	INF	INF	4838	0.25	90	9.5	87
1738	569789	5179759	3.0	57	5.9	23	25	0.09	1.2	0.69	2.6	16	33	2855	57	1.5	16	1.7	0.2	0.2	3800	0.25	73	7.1	64
1739	569784	5178203	6.0	48	5.9	29	25	0.18	3.3	1.29	7.3	38	48	8378	355	1.6	25	8.2	1.5	2.5	3691	0.25	103	3.8	102
1740	568699	5177852	11.0	51	6.3	46	25	0.20	19.0	1.17	15.7	44	59	10762	246	4.3	31	4.9	3.0	3.1	8145	0.25	125	9.9	136
1741	569059	5178827	4.0	39	6.6	43	26	0.22	2.8	0.56	5.4	18	118	2049	23	1.6	30	4.7	1.9	0.6	4662	0.25	81	9.5	56
1742	568857	5178969	6.0	56	6.7	36	26	0.21	2.6	0.84	7.6	28	52	5627	116	1.3	25	7.2	1.0	0.2	5633	0.25	124	4.4	107
1743	566387	5180131	1.0	45	6.8	44	27	0.09	6.1	0.85	9.1	24	34	7309	426	1.7	30	5.3	0.8	0.2	3835	0.25	69	5.2	57
1744	568903	5180573	6.0	49	6.9	25	26	0.23	15.0	1.16	14.7	43	58	15627	328	2.4	34	5.6	1.4	0.9	5873	0.25	102	8.3	142
1745	567637	5180938	7.0	43	6.9	33	26	0.13	3.0	0.89	8.1	51	40	10719	207	1.2	33	7.3	1.1	0.8	3819	0.25	170	3.4	111
1746	566927	5180947	11.0	46	6.5	31	26	0.21	2.7	0.96	9.9	47	54	8835	275	1.5	33	7.5	1.3	1.2	3601	0.25	180	3.0	105
1747	566845	5178474	2.0	52	6.0	29	26	0.07	1.7	0.38	2.4	9	21	1412	22	1.1	18	4.0	0.2	0.2	3596	0.25	101	2.1	17
1748	566571	5178526	3.0	53	4.8	27	18	0.10	1.6	0.61	2.8	16	30	2768	63	1.2	15	2.4	0.2	0.2	3915	0.25	92	2.4	50
1749	566646	5177603	10.0	78	4.7	19	24	0.24	2.2	1.16	2.9	11	71	6148	141	2.7	15	3.1	INF	INF	5611	0.25	61	1.9	165
1750	565310	5177484	1.0	60	5.1	24	26	0.14	5.4	1.21	6.4	12	42	2383	69	1.3	43	17.4	1.0	0.9	5982	0.52	75	2.8	82
1751	564736	5178043	1.0	56	5.4	31	27	0.07	1.2	0.38	3.2	9	23	1488	29	1.3	21	3.3	0.2	0.2	3713	0.25	65	4.0	32
1752	564326	5178268	5.0	62	5.8	31	27	0.12	1.1	0.57	3.9	10	44	1466	54	2.3	17	2.6	1.2	0.2	5248	0.25	44	5.1	76
1753	564380	5178793	1.0	49	5.7	30	26	0.11	1.9	0.48	3.0	19	32	3072	60	0.4	23	7.9	0.9	0.7	3242	0.25	83	4.6	16
1754	562936	5178900	6.0	35	6.1	38	26	0.18	3.6	0.67	8.3	41	44	12479	258	1.5	29	7.3	1.6	1.2	3337	0.25	207	2.8	91
1755	562516	5179554	6.0	36	6.4	39	26	0.13	2.0	0.57	6.5	29	38	7862	146	1.0	22	4.8	2.3	2.4	2634	0.25	136	0.9	65
1756	562034	5177927	22.0	53	6.6	38	26	0.17	3.1	0.75	3.8	20	44	4825	75	1.4	23	7.2	1.2	0.8	4725	0.25	83	1.4	63
1757	561485	5178510	8.0	43	6.6	38	27	0.17	2.2	0.80	5.2	27	47	5441	202	1.6	18	5.3	1.2	0.9	2976	0.25	86	2.9	71
1758	561173	5179134	7.0	62	6.7	39	27	0.12	3.5	0.71	2.1	12	28	6017	81	2.1	11	2.8	0.2	0.2	4116	0.25	66	3.6	66
1759	560543	5179705	6.0	20	6.8	39	26	0.09	2.8	0.51	9.4	40	29	14730	365	1.8	28	4.1	1.4	1.4	1822	0.25	184	2.4	86
1760	559906	5177802	1.0	58	6.7	36	27	0.13	3.1	0.73	11.0	36	65	8116	88	2.4	44	6.1	INF	INF	6065	0.25	178	14.8	85
1761	559213	5179264	5.0	47	6.7	39	27	0.38	4.5	1.39	17.6	49	76	16729	818	3.9	27	13.0	2.2	1.6	3572	0.25	184	4.1	140
1762	557086	5178230	7.0	26	6.7	44	26	0.13	3.3	0.58	13.0	40	35	17583	414	1.5	30	5.4	1.9	1.4	1982	0.25	137	2.0	93
1763	556067	5178942	11.0	29	6.9	44	26	0.14	7.7	0.63	13.3	52	43	20248	484	2.2	34	5.9	2.3	1.8	2240	0.25	205	2.9	102
1764	555187	5178467	4.0	68	6.2	12	26	0.11	2.1	0.87	6.0	35	15	6500	85	0.8	23	6.1	INF	INF	1816	0.25	277	0.3	116
1765	555615	5180001	6.0	57	5.9	29	27	0.10	7.1	0.95	7.4	22	31	12520	181	1.8	17	4.0	1.9	1.3	5218	0.25	112	1.0	114
1766	556271	5179551	2.0	58	6.3	45	27	0.12	3.0	0.77	12.0	19	63	5674	100	2.9	37	4.0	2.0	1.3	7402	0.25	56	2.9	89
1767	556976	5180196	9.0	30	6.7	45	26	0.18	2.4	0.67	7.6	37	37	12311	265	0.9	26	10.2	1.9	1.5	2609	0.25	135	1.5	73
1768	557866	5180067	4.0	26	6.9	45	26	0.24	6.4	1.01	36.7	49	53	51030	2520	3.8	42	7.7	2.9	2.0	1652	0.25	182	2.9	147
1769	557782	5181441	3.0	91	5.9	21	25	0.05	0.9	0.68	1.2	6	9	1153	77	0.9	2.5	1.7	INF	INF	3487	0.25	50	0.2	75
1770	559129	5181487	5.0	69	6.0	41	25	0.14	3.2	0.91	3.9	10	50	2736	89	2.7	14	2.8	INF	INF	5090	0.25	75	1.2	97
1771	559675	5181344	4.0	75	6.4	54	26	0.06	4.1	0.55	2.8	10	26	2403	126	2.1	15	6.0	INF	INF	6376	0.25	50	0.5	69
1772	560091	5181500	1.0	40	6.7	40	26	0.10	2.9	0.90	4.3	14	44	2825	126	1.4	32	15.0	1.5	0.9	4693	0.25	55	2.0	52
1773	560841	5181748	1.0	42	6.8	39	26	0.14	1.7	0.61	5.8	32	46	6457	191	1.2	21	5.3	1.4	2.3	2742	0.25	108	2.2	70
1774	561164	5181388	6.0	43	6.8	39	26	0.15	2.7	0.82	5.5	28	44	5427	195	1.2	22	7.8	1.5	1.0	3482	0.25	79	2.4	72
1775	562438	5181365	1.0	43	6.6	32	26	0.05	1.4	0.36	2.6	7	23	1565	29	0.5	13	2.5	1.2	0.9	2919	0.25	57	0.4	22
1776	562949	5181333	2.0	56	6.5	34	27	0.10	2.7	0.66	6.5	19	38	4290	65	1.3	29	6.2	2.2	2.5	4434	0.25	103	0.7	53
1777	563393	5181759	8.0	40	6.6	38	25	0.17	2.2	0.78	7.5	36	54	11198	238	0.8	26	8.3	2.4	2.0	3080	0.25	134	0.9	77
1778	564453	5181023	22.0	42	6.8	38	25	0.33	3.5	0.90	34.8	51	77	21950	692	2.4	29	10.7	3.0	2.2	4104	0.25	145	1.2	102

Site	Easting	Northing	Lake	LOI	pH	Cond	Temp	Ag	As	Cd	Co	Cr	Cu	Fe	Mn	Mo	Ni	Pb	Pd	Pt	S	Sn	Ti	U	Zn
Number	Method------------->		Depth	Grav.	YSI	YSI	YSI	ICP-MS	INAA	ICP-MS	ICP-MS	ICP-OES	ICP-OES	ICP-OES	ICP-OES	ICP-MS	ICP-OES	ICP-MS	FAICPMS	FAICPMS	ICP-OES	ICP-MS	ICP-OES	ICP-MS	ICP-OES
	Detection Limit------->			0.1	0.01	1	0.01	0.02	0.5	0.050	0.05	4	5	5	1	0.10	5	0.05	0.3	0.3	30	0.50	3	0.05	2
	Units------------->		m	%		µS/cm	°C	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm
	(NAD 83 Zone 17)																								
1779	565889	5182335	5.0	30	6.9	39	25	0.14	3.3	0.55	12.1	42	36	12656	291	1.0	35	5.7	1.1	1.0	2418	0.25	173	1.1	90
1780	566335	5181652	11.0	49	6.9	33	25	0.20	3.2	0.83	8.3	37	45	10761	250	0.8	25	8.6	1.4	0.9	3671	0.25	122	0.8	101
1781	565896	5180866	1.0	60	6.7	33	27	0.09	2.1	0.70	2.7	17	34	2579	54	0.5	19	5.7	1.5	1.5	3857	0.25	71	1.2	16
1782	566031	5180153	9.0	46	6.6	32	26	0.20	2.2	0.83	9.3	34	43	7846	222	1.1	22	6.7	1.5	1.3	3199	0.25	129	1.5	85
1783	566839	5182631	3.0	61	6.6	31	26	0.18	2.5	0.93	5.2	29	46	5315	83	0.9	26	6.7	1.1	1.0	4514	0.25	120	0.8	99
1784	567417	5182455	1.0	66	6.2	27	26	0.11	4.2	0.76	3.3	17	39	3006	46	0.7	40	17.3	1.3	1.3	6497	0.25	94	0.7	39
1785	568642	5181946	18.0	50	6.1	33	26	0.37	8.5	1.63	16.3	49	59	16981	521	2.2	43	52.7	1.7	1.2	7492	1.47	150	2.6	135
1786	569290	5182394	6.0	36	6.3	35	25	0.22	13.0	1.15	18.2	68	52	44984	545	3.0	50	6.5	1.8	1.1	2916	0.25	173	3.2	192
1787	569734	5181948	14.0	56	6.5	39	26	0.27	3.0	1.22	9.5	38	60	5973	226	2.0	29	10.5	1.2	0.9	4200	0.25	149	4.0	110
1788	571630	5182260	15.0	51	6.2	29	26	0.36	2.6	0.74	20.4	35	46	12586	505	2.1	27	17.4	0.2	0.2	3770	0.25	175	3.1	85
1789	573383	5181213	3.0	42	6.6	49	27	0.11	4.0	0.80	7.5	16	32	3990	185	1.6	21	7.1	0.8	0.2	3419	0.25	75	4.1	61
1790	574638	5181023	2.0	58	6.8	73	27	0.09	6.9	0.42	4.2	16	37	2351	36	5.7	19	3.1	1.7	0.8	7341	0.25	53	10.3	42
1791	577578	5180908	5.0	77	6.7	25	26	0.12	1.9	1.13	2.3	13	27	5705	78	1.2	15	3.1	0.2	0.2	5392	0.25	56	2.0	204
1792	581621	5181908	1.0	59	6.4	49	28	0.05	1.5	0.47	2.3	7	22	1131	44	1.1	18	2.7	0.2	0.2	3389	0.25	53	1.0	26
1793	584389	5185321	10.0	17	6.9	68	24	0.18	2.7	0.43	12.2	59	29	24399	489	0.4	39	8.8	0.7	1.6	1254	0.25	227	1.5	100
1794	586594	5186878	4.0	79	6.1	30	24	0.09	1.6	1.06	2.1	9	32	1672	60	1.9	13	1.9	0.2	0.2	4048	0.25	51	2.0	66
1795	586833	5187915	2.0	61	6.2	62	26	0.14	3.0	0.60	6.2	24	52	5196	99	2.9	21	4.4	INF	INF	5130	0.25	119	5.3	87
1796	587340	5189370	1.0	57	6.8	38	27	0.09	1.5	0.45	5.7	15	39	1979	31	1.8	24	3.1	0.6	0.2	3923	0.25	99	1.4	43
1797	589028	5189946	7.0	47	6.9	68	25	0.22	1.7	0.80	6.7	32	43	6825	202	0.7	19	4.6	1.1	0.9	3124	0.25	115	1.3	80
1798	591087	5191278	7.0	67	7.2	35	26	0.23	1.5	0.90	5.9	18	39	8471	250	1.0	17	6.8	0.6	0.2	5338	0.25	71	0.8	100
1799	591292	5192114	7.0	NS	7.2	59	25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1800	596190	5192412	3.0	67	7.3	37	24	0.21	1.3	0.51	5.0	17	43	2132	43	1.4	22	3.7	INF	INF	5304	0.25	68	1.3	66
1801	600239	5194188	13.0	57	7.0	42	23	0.26	3.5	0.57	8.1	23	29	12727	421	1.0	21	14.7	0.7	0.2	5376	0.25	63	1.8	61
1802	601551	5194987	5.0	46	7.3	59	24	0.20	3.2	0.83	12.6	41	28	15787	1061	1.2	21	11.0	0.7	0.6	3306	0.25	172	2.7	104
1803	601624	5195640	5.0	48	7.5	87	24	0.09	3.0	0.71	9.2	31	29	9292	176	2.4	17	4.7	0.8	0.2	4188	0.25	98	2.8	78
1804	603346	5195170	1.0	16	7.2	95	24	0.11	1.7	0.62	7.6	30	13	9878	273	0.2	21	9.3	0.2	1.6	2500	0.25	250	1.9	68
1805	605586	5195436	7.0	45	7.3	44	23	0.14	1.7	0.66	6.4	36	24	7949	238	0.8	22	6.3	0.2	0.2	3074	0.25	138	4.0	63
1806	606071	5196615	8.0	48	7.2	37	24	0.19	2.1	0.88	7.8	44	26	11098	326	0.7	24	5.0	0.2	0.2	2867	0.25	158	4.6	82
1807	610332	5197153	4.0	32	7.1	36	24	0.14	1.6	0.56	7.2	40	19	9240	149	0.3	25	6.6	0.7	0.2	2417	0.25	179	1.7	71
1808	610622	5199136	10.0	46	6.9	32	24	0.18	1.9	0.64	9.1	36	25	6863	210	0.6	20	5.7	0.2	0.2	2904	0.25	119	1.2	67
1809	611871	5199565	3.0	60	6.5	32	24	0.08	1.1	0.72	2.4	16	24	3002	56	0.6	13	2.4	0.4	2.1	3377	0.25	44	0.8	41
1810	612493	5200741	5.0	60	6.4	29	24	0.13	1.0	0.67	3.8	17	25	5676	64	1.2	17	4.9	0.2	0.2	5248	0.25	61	1.1	73
1811	612831	5200390	8.0	54	6.5	27	25	0.11	1.6	0.42	3.4	28	29	6045	82	0.6	18	5.3	0.2	0.2	3375	0.25	155	1.1	44
1812	615699	5200984	5.0	56	6.4	30	24	0.09	1.7	0.70	5.3	38	22	6191	97	0.6	24	10.7	0.2	0.2	3907	0.25	284	1.1	57
1813	614612	5201892	6.0	49	6.4	34	24	0.23	1.5	0.59	4.4	24	65	3299	40	1.8	28	5.3	0.2	0.2	5815	0.25	63	1.9	74
1814	614162	5203260	3.0	62	6.6	34	24	0.05	1.6	0.68	14.1	56	50	9754	80	2.1	46	3.0	INF	INF	4910	0.25	214	4.0	108
1815	614584	5203610	9.0	61	6.4	25	24	0.19	2.2	0.86	10.5	32	43	9752	292	1.3	22	4.7	0.2	0.2	5278	0.25	80	1.4	81
1816	614311	5204817	13.0	37	6.4	33	25	0.14	0.3	0.47	7.8	50	30	8496	137	0.5	31	4.6	0.2	0.8	2309	0.25	235	2.1	70
1817	615608	5206472	19.0	44	6.6	32	24	0.30	2.1	0.41	8.9	49	31	13375	189	1.0	28	11.7	0.7	0.2	3833	0.25	203	1.8	65
1818	614659	5208038	12.0	49	6.6	31	24	0.19	2.8	0.55	7.8	41	32	8275	249	0.8	24	13.9	0.8	0.2	3588	0.25	127	2.1	51
1819	614967	5208580	1.0	67	6.6	33	24	0.09	1.4	0.72	6.7	31	38	3835	99	1.2	33	2.4	0.6	0.2	4191	0.25	111	3.7	61
1820	614781	5209044	17.0	60	6.6	32	24	0.21	6.3	1.05	10.9	44	35	11039	411	1.0	32	30.2	0.8	0.7	5014	1.15	138	2.8	87
1821	615474	5209513	12.0	58	6.7	30	25	0.27	1.6	0.56	8.5	44	37	8991	344	1.4	21	9.6	0.2	0.2	3292	0.25	160	1.9	51
1822	615042	5210438	1.0	68	6.4	25	25	0.16	2.6	1.09	7.7	22	27	4602	189	0.7	29	20.6	INF	INF	6065	0.25	46	3.2	64
1823	615758	5210012	1.0	54	6.3	29	24	0.10	1.8	0.58	6.1	33	26	4037	43	0.7	41	4.3	0.2	0.2	3216	0.25	122	1.5	54
1824	615715	5210925	16.0	33	6.6	30	24	0.14	2.9	0.74	9.2	58	27	11169	225	0.5	39	17.5	0.9	0.7	2656	0.58	333	1.2	85
1825	615162	5210945	3.0	76	6.4	23	24	0.15	1.4	0.72	2.4	15	55	3054	66	1.6	16	2.9	INF	INF	4879	0.25	52	1.7	67
1826	614129	5211072	7.0	35	6.4	34	24	0.07	2.2	0.64	10.7	65	34	13576	322	1.6	36	5.0	0.7	2.3	2263	0.25	263	2.2	102
1827	614791	5211802	1.0	51	6.6	37	24	0.08	0.8	0.26	4.0	35	28	3115	30	0.9	36	5.1	0.2	0.2	3712	0.25	128	2.0	22
1828	615066	5211890	8.0	43	6.7	35	23	0.19	3.3	0.78	9.8	70	39	11179	300	2.0	42	7.3	1.0	0.9	3347	0.25	213	2.8	95
1829	615884	5211771	16.0	58	6.8	25	24	0.17	2.1	0.79	6.2	53	35	7174	226	1.5	34	11.7	0.2	0.6	5007	0.25	123	2.1	93
1830	615641	5212831	10.0	35	6.8	34	24	0.14	1.5	0.78	11.7	62	30	13119	390	1.5	38	7.3	0.7	0.6	2295	0.25	203	2.2	91
1831	614389	5213045	29.0	33	7.1	40	24	0.18	9.3	1.42	24.5	55	37	32973	2618	2.1	45	30.1	1.1	0.8	2581	0.92	147	2.6	157
1832	613416	5214587	9.0	60	6.9	32	24	0.20	4.6	1.01	17.3	39	57	11560	498	5.6	20	8.6	0.6	0.6	6196	0.25	69	1.7	102
1833	614271	5217218	12.0	55	6.9	35	24	0.18	4.1	0.70	11.9	35	71	9269	338	2.3	20	15.9	1.1	1.2	6913	0.25	78	1.6	82
1834	614515	5217715	2.0	60	6.9	46	25	0.13	2.7	0.80	8.5	35	68	5702	94	2.3	32	5.8	INF	INF	5449	0.25	121	2.8	90
1835	616317	5214273	11.0	44	7.0	31	24	0.24	2.9	1.00	15.0	52	32	12665	426	1.0	35	21.2	0.6	0.2	4186	0.57	175	1.7	88
1836	615667	5214002	4.0	63	6.9	34	25	0.14	2.3	0.58	10.3	37	45	4797	81	1.3	26	7.2	INF	INF	5388	0.25	64	1.8	79
1837	615124	5213709	16.0	62	6.9	31	24	0.28	3.2	0.74	12.3	32	63	21395	436	1.5	22	24.8	INF	INF	7095	0.25	80	1.2	108
1838	617013	5213337	4.0	42	6.8	29	25	0.13	2.5	0.74	7.5	41	23	8054	123	0.6	31	12.1	0.2	0.2	4046	0.25	126	1.2	70
1839	618319	5212716	10.0	53	6.7	28	24	0.22	3.3	0.47	3.7	21	31	5188	105	1.6	19	9.0	0.2	0.2	4644	0.25	75	1.2	50
1840	618036	5213025	2.0	53	6.1	28	24	0.09	0.8	0.46	2.2	10	33	1220	23	1.9	18	2.5	0.2	0.2	3818	0.25	54	1.7	50
1841	619513	5211727	7.0	56	5.5	26	24	0.18	1.8	0.74	6.2	40	35	8592	81	1.0	23	3.8	0.2	0.2	6228	0.25	92	1.8	73
1842	620334	5211250	5.0	53	5.3	24	24	0.09	0.7	0.65	4.6	32	23	5648	102	0.7	21	3.4	0.2	0.2	3490	0.25	176	1.2	64
1843	618977	5211465	4.0	63	5.3	17	23	0.10	0.8	0.64	2.2	17	26	2617	61	1.3	15	2.0	0.2	0.2	3777	0.25	41	0.7	52
1844	618305	5211745	6.0	NS	4.9	25	23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1845	617685	5211053	6.0	54	5.6	25	24	0.18	1.3	0.53	3.5	25	27	4641	72	1.3	24	5.0	0.2	0.2	3538	0.25	84	1.3	50
1846	616224	5211510	1.0	56	5.9	36	23	0.13	1.2	0.76	3.8	27	18	4054	71	0.9	23	6.4	0.2	0.2	3476	0.25	88	1.2	69
1847	616882	5211140	4.0	53	6.2	31	24	0.21	1.3	0.73	5.2	51	33	8783	92	2.0	42	7.6	0.7	2.0	4052	0.25	162	1.4	85
1848	616532	5209972	5.0	53	6.3	26	24	0.16	1.9	0.82	6.5	38	28	5904	139	0.9	24	5.3	0.2	0.2	3668	0.25	97	1.0	95
1849	616120	5208721	18.0	52	6.4	30	25	0.28	2.0	0.74	11.5	55	42	10714	422	1.7	26	9.1	0.2	0.2	3093	0.25	222	1.9	70
1850	616705	5208100	1.0	NS	6.0	24	24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1851	617375	5208353	1.0	56	6.0	25	25	0.08	1.1	0.61	3.6	20	28	1864	33	1.0	21	4.2	0.2	0.2	3863	0.25	63	1.1	57
1852	618474	5207786	3.0	50	5.9	25	25	0.08	1.5	0.44	1.9	16	22	2479	53	0.9	14	3.8	0.2	0.2	3629	0.25	72	0.9	34
1853	618820	5207631	4.0	52	5.6	27	25	0.12	1.3	0.46	2.5	16	25	3657	45	1.0	18	2.9	0.2	0.2	3982	0.25	70	0.8	45
1854	619436	5208469	1.0	68	NM	NM	NM	0.06	1.9	0.63	2.4	13	16	2877	50	0.7	15	10.9	0.2	0.6	4145	0.25	64	0.7	32
1855	619031	5208931	5.0	48	5.6	26	25	0.10	1.3	0.49	2.1	18	19	3931	56	0.7	15	4.7	0.2	0.2	3260	0.25	70	0.8	34
1856	620077	5209292	1.0	64	5.7	23	25	0.07	0.6	0.43	4.6	25	26	3270	46	1.0	30	3.2	0.2	1.8	3857	0.25	99	1.7	26
1857	620110	5209952	3.0	52	5.4	22	25	0.08	1.0	0.50	2.5	17	27	2444	45	0.7	18	2.5	0.2	0.6	3553	0.25	61	1.2	35
1858	620425	5209391	6.0	64	5.5	26	25	0.14	1.6	0.67	2.2	21	34	5208	54	1.3	19	3.2	0.2	0.2	4429	0.25	51	0.8	67
1859	620791	5209296	5.0	58	5.3	23	24	0.08	0.9	0.48	2.6	28	33	3440	39	0.9	22	2.0	0.2	0.6	4538	0.25	71	1.3	60
1860	620153	5208157	1.0	61	5.4	25	24	0.07	0.8	0.43	2.9	19	19	2313	33	1.1	20	3.1	0.2	0.2	3448	0.25	103	1.2	15
1861	621166	5208135	22.0	53	5.8	25	24	0.17	5.0	0.71	6.0	32	32	8905	108	0.8	24	17.4	0.2	0.2	5131	0.70	164	1.0	62
1862	622220	5208008	6.0	57	5.8	26	24	0.08	1.7	0.49	6.0	31	27	5919	102	0.8	21	3.2	0.2	0.2	3370	0.25	123	1.0	42
1863	622595	5206912	2.0	62	5.6	31	24	0.06	1.0	0.43	5.1	19	28	3205	37	2.7	31	2.1	0.2	0.2	4754	0.25	74	0.9	60
1864	623229	5206701	4.0	65	5.7	25	25	0.08	0.9	0.58	3.7	26	26	3337	63	0.7	20	3.0	0.2	0.2	4439	0.25	74	0.9	72
1865	621454	5207068	14.0	58	5.6	26	25	0.15	0.9	0.42	2.4	13	32	4715	56	0.8	15	3.9	0.2	0.2	4558	0.25	65	0.6	47
1866	621231	5206825	6.0	61	5.4	24	24	0.14	2.5	0.63	3.6	16	28	5315	58	0.7	18	9.3	0.2	0.2	5248	0.25	64	0.6	51
1867	620220	5206780	12.0	46	5.8	26	25	0.15	0.8	0.49	6.4	39	25	8882	160	0.9	21	4.1	0.7	2.2	2148	0.25	223	1.3	56
1868	619495	5207209	13.0	37	5.9	26	24	0.10	1.3	0.34	4.3	32	18	6833	96	0.5	19	7.3	0.2	0.2	1957	0.25	194	0.9	38
1869	618128	5206831	1.0	47	5.9	28	25	0.07	1.2	0.32	2.3	10	17	1955	33	0.7	15	4.2	0.2	0.2	3839	0.25	68	0.9	26
1870	617774	5207065	1.0	36	5.9	28	25	0.10	3.4	0.76	4.9	26	17	6607	92	0.5	23	22.0	0.7	1.8	3726	0.67	207	0.8	49
1871	616001	5204594	8.0	40	6.1	29	24	0.16	1.1	0.45	6.1	36	22	7626	113	0.6	20	6.6	0.5	1.5	2543	0.25	135	1.3	52
1872	616006	5203503	13.0	52	5.8	26	25	0.20	2.8	0.74	2.6	20	28	3015	61	1.1	17	9.9	0.6	1.6	3710	0.25	82	1.8	53
1873	615640	5203128	1.0	48	5.6	30	25	0.12	1.2	0.52	2.9	22	29	2092	27	0.6	26	4.6	0.4	1.2	3171	0.25	119	1.6	36
1874	611919	5197797	6.0	62	5.4	27	25	0.12	0.9	0.61	2.2	18	32	2737	45	0.7	13	2.1	0.5	1.9	3736	0.25	44	0.9	36

Site	Easting	Northing	Lake	LOI	pH	Cond	Temp	Ag	As	Cd	Co	Cr	Cu	Fe	Mn	Mo	Ni	Pb	Pd	Pt	S	Sn	Ti	U	Zn
Number	Method----------------->		Depth	Grav	YSI	YSI	YSI	ICP-MS	INAA	ICP-MS	ICP-MS	ICP-OES	ICP-OES	ICP-OES	ICP-OES	ICP-MS	ICP-OES	ICP-MS	FAICPMS	FAICPMS	ICP-OES	ICP-MS	ICP-OES	ICP-MS	ICP-OES
	Detection Limit------->			0.1	0.01	1	0.01	0.02	0.5	0.050	0.05	4	5	5	1	0.10	5	0.05	0.3	0.3	30	0.50	3	0.05	2
	Units----------------->		m	%		µS/cm	°C	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm
	(NAD 83 Zone 17)																								
1875	610964	5196949	1.0	62	5.6	27	24	0.07	1.5	0.79	3.6	12	19	2389	47	0.6	21	12.1	0.6	1.8	4088	0.25	57	0.8	42
1876	605319	5193860	4.0	67	5.6	23	26	0.11	1.1	0.61	3.1	13	27	4024	97	2.3	13	2.9	0.2	0.2	4170	0.25	46	4.3	61
1877	602876	5194102	3.0	NS	6.2	55	25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1878	601797	5193561	5.0	17	6.6	35	24	0.06	1.2	0.37	10.3	30	17	9427	253	1.6	21	2.8	0.6	1.5	1896	0.25	227	3.1	80
1879	597850	5190334	1.0	60	8.9	99	26	0.08	2.8	0.60	6.3	24	25	4685	78	0.8	21	7.4	1.0	2.5	4643	0.25	77	2.7	48
1880	600315	5187752	1.0	51	8.6	42	25	0.05	1.6	0.57	3.9	13	19	2294	59	0.9	21	6.2	0.4	1.7	3898	0.25	76	2.1	36
1881	601430	5187290	17.0	57	7.8	32	25	0.18	1.7	0.52	6.1	32	35	8847	159	0.9	25	5.6	0.6	1.9	3806	0.25	174	1.3	50
1882	602918	5186623	3.0	39	7.5	51	24	0.09	2.2	0.52	9.3	41	41	10230	234	1.5	34	3.2	0.7	0.6	4974	0.25	253	4.8	71
1883	603652	5185998	4.0	62	7.3	29	26	0.09	1.6	0.56	3.8	20	30	2588	51	0.8	19	2.9	0.6	0.2	4346	0.25	98	1.1	47
1884	604276	5185512	5.0	31	6.9	78	26	0.13	1.4	0.69	11.7	64	35	15379	332	0.6	35	4.4	1.1	2.5	3133	0.25	200	2.1	86
1885	606309	5184592	2.0	NS	7.2	48	25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1886	607992	5179351	3.0	31	7.2	34	26	0.07	2.2	0.59	8.0	42	17	11551	213	0.5	26	5.6	0.8	2.5	2068	0.25	256	1.1	89
1887	619085	5177828	2.0	50	7.1	136	26	0.08	5.6	1.38	15.5	71	24	44632	556	0.5	31	5.8	1.0	0.6	3540	0.25	391	1.6	176
1888	619683	5177207	6.0	82	7.9	68	25	0.04	INF	0.57	2.3	17	13	3254	61	0.9	10	3.3	INF	INF	3394	0.25	117	0.8	[illegible]8
1889	621254	5178285	15.0	66	8.3	209	25	0.16	23.0	0.72	5.3	78	94	13400	200	8.5	17	6.3	INF	INF	21582	0.25	85	10.3	65
1890	621676	5177408	6.0	NS	8.4	190	24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1891	621423	5177700	1.0	NS	8.6	215	26	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1892	623243	5176715	3.0	62	8.5	153	26	0.05	8.9	0.31	1.4	38	20	3657	40	5.8	8	4.4	INF	INF	12725	0.25	90	5.2	37
1893	624039	5177809	8.0	67	8.8	108	25	0.09	INF	0.44	2.5	30	20	2881	59	3.8	14	10.7	INF	INF	7802	0.25	145	1.7	52
1894	624962	5176372	13.0	62	8.5	32	26	0.13	2.2	0.81	2.8	26	26	9914	161	1.6	15	3.9	1.0	0.2	7575	0.25	113	0.9	111
1895	625773	5176297	11.0	57	7.9	21	26	0.10	1.6	0.76	3.7	30	18	6331	191	1.0	15	6.4	0.7	0.2	3995	0.25	88	0.6	71
1896	625361	5177815	7.0	72	7.5	31	26	0.22	2.6	0.96	3.6	25	34	10419	128	2.6	14	4.6	INF	INF	6384	0.25	86	1.0	213
1897	626103	5178342	7.0	51	8.4	52	25	0.08	INF	0.68	4.7	34	19	9744	129	7.1	20	8.1	INF	INF	7990	0.25	275	10.6	82
1898	626927	5178034	27.0	9	7.9	49	24	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD
1899	626974	5176613	3.0	NS	7.9	49	24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1900	628466	5176869	9.0	53	7.7	17	25	0.08	2.0	1.10	4.7	30	15	8183	161	0.8	15	5.0	0.2	0.2	4508	0.25	76	1.9	92
1901	629410	5177181	5.0	77	7.1	18	26	0.01	2.1	0.64	3.2	11	12	9255	275	1.4	9	4.2	INF	INF	6045	0.25	90	0.3	120
1902	629247	5178084	12.0	67	7.1	52	25	0.03	3.5	0.49	4.1	19	19	7431	531	2.1	18	8.7	INF	INF	7492	0.25	173	1.3	67
1903	630216	5178550	3.0	60	7.4	66	26	0.08	5.2	0.66	3.7	29	22	13223	527	2.0	21	18.5	1.2	0.2	7994	0.25	112	1.2	78
1904	630353	5177353	6.0	70	7.5	54	25	0.39	11.0	0.94	24.3	48	74	21665	550	5.5	59	5.1	INF	INF	11704	0.25	261	4.7	103
1905	630184	5176559	6.0	56	7.5	31	25	0.01	2.1	0.76	3.2	30	20	6798	167	0.8	13	7.4	0.6	2.1	4194	0.25	152	2.1	110
1906	630714	5176298	25.0	57	7.2	31	25	0.19	6.5	0.86	26.5	42	23	46103	1016	1.6	19	22.8	0.2	0.2	5259	0.25	177	2.2	126
1907	631038	5175675	15.0	49	7.1	31	25	0.01	2.4	0.72	6.6	43	16	14697	344	1.1	17	4.6	0.2	0.2	2681	0.25	265	2.1	92
1908	632149	5176928	14.0	NS	7.1	35	25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1909	631574	5178425	5.0	53	7.1	49	25	0.11	3.0	0.35	5.3	49	83	7358	102	1.7	45	4.9	2.5	0.7	4306	0.25	269	5.2	72
1910	633069	5177815	11.0	NS	7.5	70	24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1911	633184	5177294	2.0	60	7.7	19	26	0.01	2.4	0.57	7.4	43	29	16477	184	1.7	23	3.4	INF	INF	3570	0.25	290	1.1	99
1912	634321	5176609	10.0	55	7.7	75	24	0.01	3.5	0.36	6.0	38	39	7845	125	3.6	21	6.5	INF	INF	7132	0.25	224	5.1	59
1913	636502	5177346	3.0	62	7.4	40	26	0.02	1.6	0.87	2.9	14	19	3680	64	1.0	9	3.1	0.2	0.2	3407	0.25	54	3.5	52
1914	636962	5179447	10.0	77	4.3	41	24	0.19	1.6	1.04	1.8	7	59	5263	87	3.0	9	2.2	INF	INF	5290	0.25	34	1.7	97
1915	640863	5178847	3.0	56	4.2	41	25	0.01	0.7	0.63	1.5	15	18	2821	40	0.8	9	1.7	0.2	0.2	3167	0.25	36	1.4	32
1916	640966	5177930	4.0	81	4.1	43	23	0.01	1.1	0.60	1.3	10	24	4882	149	1.3	7	1.7	INF	INF	3656	0.25	57	1.7	78
1917	643449	5171783	5.0	51	5.4	35	26	0.06	1.7	0.70	3.1	15	19	4142	113	1.8	13	6.6	0.2	0.2	4573	0.25	69	1.5	76
1918	639249	5173800	5.0	66	5.5	26	26	0.09	2.4	1.21	1.7	11	28	3160	63	1.0	11	3.2	0.2	0.2	4644	0.25	48	1.6	114
1919	638213	5174141	3.0	60	5.2	31	26	0.42	0.9	0.76	3.8	19	29	8808	123	1.0	12	3.1	0.7	2.3	4446	0.25	70	1.7	80
1920	637056	5175123	1.0	57	6.1	60	27	0.25	2.3	0.92	7.1	36	24	9919	164	1.8	25	5.2	0.7	1.3	7249	0.25	265	3.3	89
1921	636472	5175166	7.0	NS	6.7	57	26	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1922	634982	5175646	18.0	50	7.0	56	25	0.11	6.3	1.23	13.8	55	25	58299	1192	2.0	23	16.8	0.9	0.2	4418	0.55	259	4.0	161
1923	629942	5175356	1.0	37	7.1	46	26	0.22	5.0	0.41	10.3	37	46	6605	78	1.7	31	9.0	1.9	1.9	5758	0.25	162	2.3	50
1924	629656	5175016	3.0	32	6.8	56	22	0.35	28.0	0.33	33.1	109	103	155826	265	0.9	49	9.9	4.0	4.7	1992	0.25	345	4.2	68
1925	629416	5175959	8.0	64	6.6	35	25	0.38	3.2	0.92	22.2	39	43	30280	206	1.0	15	5.4	0.2	0.2	11928	0.25	66	1.2	127
1926	629019	5176407	5.0	62	6.5	30	26	0.12	2.8	0.95	6.6	46	18	12243	124	0.9	17	3.2	INF	INF	4759	0.25	112	0.8	112
1927	627684	5175826	5.0	57	6.5	26	27	0.10	2.0	0.69	2.8	20	25	5561	91	0.6	13	3.1	0.7	2.3	4107	0.25	55	1.5	75
1928	628833	5174657	6.0	36	6.5	51	25	0.32	42.0	0.39	56.8	105	68	200404	1451	3.2	50	6.5	3.6	3.1	2211	0.25	325	6.1	111
1929	626098	5174853	6.0	39	7.0	43	25	0.14	7.7	0.46	7.2	48	69	20918	262	8.3	36	4.8	INF	INF	16134	0.28	435	7.4	58
1930	625131	5175333	14.0	60	7.2	42	25	0.37	2.3	0.66	6.9	26	23	10232	172	1.6	21	7.2	INF	INF	7706	0.25	134	1.5	68
1931	623644	5176050	2.0	82	7.4	43	26	0.04	INF	0.65	1.7	21	11	3452	39	2.0	9	1.9	INF	INF	5411	0.25	122	0.9	82
1932	622938	5175434	2.0	88	6.2	10	26	0.05	INF	0.95	1.6	15	9	1767	263	0.7	8	4.0	INF	INF	3023	0.25	37	0.6	117
1933	622546	5175326	5.0	90	4.7	16	27	0.05	INF	0.87	1.6	13	12	2807	598	0.8	9	3.7	INF	INF	3810	0.25	37	0.3	121
1934	622440	5174692	2.0	66	6.2	133	26	0.08	6.8	0.10	2.5	43	21	13002	186	5.2	12	2.4	INF	INF	19852	0.25	100	3.2	25
1935	621840	5175632	4.0	48	7.2	144	26	0.06	7.0	0.49	6.0	54	24	16939	403	4.0	15	15.8	1.9	2.2	15150	0.62	209	2.3	52
1936	621045	5175745	3.0	NS	7.5	135	26	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1937	620834	5174394	9.0	44	7.8	130	25	0.14	7.4	0.45	10.1	64	23	31095	637	1.3	22	10.3	1.6	2.4	6961	0.25	254	2.3	96
1938	619127	5174785	2.0	53	7.7	147	26	0.09	4.9	1.20	9.9	55	18	22333	498	0.7	19	9.3	1.2	1.8	4606	0.25	272	1.7	106
1939	618617	5175936	1.0	49	7.7	138	27	0.08	5.4	1.59	7.6	58	21	20199	249	0.6	22	7.1	1.0	0.7	4124	0.25	233	1.3	125
1940	618699	5176603	2.0	56	7.6	132	26	0.11	7.1	1.38	12.8	85	27	40569	324	2.5	28	4.3	1.3	0.7	4149	0.25	327	1.8	165
1941	611303	5177356	1.0	NS	7.5	32	26	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1942	611001	5175439	4.0	53	6.8	30	25	0.01	1.4	0.03	1.4	37	20	7828	179	0.1	24	0.1	0.7	2.4	3581	0.25	178	0.0	74
1943	609534	5177574	2.0	40	6.5	32	25	0.38	1.5	0.67	12.7	39	34	16090	101	0.7	29	3.5	0.8	2.1	15895	0.25	120	2.6	79
1944	605981	5177502	4.0	18	6.5	32	26	0.11	3.2	0.42	21.6	70	24	23046	388	0.6	45	4.4	0.8	1.5	1258	0.61	447	3.2	126
1945	605451	5184063	1.0	NS	6.7	45	26	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1946	603246	5184424	4.0	38	7.0	89	26	0.14	2.6	0.48	9.7	49	30	11390	184	0.7	32	6.6	1.1	2.3	4272	0.25	193	1.9	74
1947	602552	5184276	1.0	49	7.2	86	27	0.07	2.5	0.55	4.9	37	30	7570	86	1.7	35	5.8	1.2	1.9	7276	0.25	144	2.1	57
1948	601685	5184225	2.0	46	7.3	46	27	0.08	1.2	0.42	4.0	19	36	3673	82	0.8	25	2.6	0.7	2.1	3220	0.25	76	1.0	50
1949	601924	5185168	3.0	58	7.2	28	26	0.09	1.6	0.72	9.6	45	36	8425	136	1.1	45	4.7	INF	INF	4042	0.25	154	1.6	92
1950	602433	5186121	1.0	52	7.0	40	27	0.07	0.8	0.45	3.9	11	25	1026	21	1.0	24	1.9	0.2	0.2	3559	0.25	51	1.4	46
1951	599573	5186581	13.0	38	7.1	34	26	0.09	1.3	0.45	11.4	40	20	14544	347	0.9	23	5.9	0.7	1.9	2100	0.25	136	2.1	74
1952	596825	5186423	12.0	51	7.0	31	26	0.06	1.4	0.56	5.6	42	32	7454	153	0.8	24	9.6	1.2	2.9	4297	0.25	101	2.9	60
1953	596881	5187940	1.0	59	7.0	36	27	0.07	2.4	0.77	3.7	22	26	3275	75	1.4	25	9.4	INF	INF	4584	0.25	81	3.8	52
1954	597518	5188568	6.0	72	6.5	29	26	0.14	1.1	0.83	1.9	10	43	3591	57	2.0	16	2.4	INF	INF	4534	0.25	50	1.9	65
1955	596389	5189738	8.0	46	6.3	21	25	0.01	1.6	0.27	5.7	37	29	6263	80	0.7	24	5.4	0.6	0.2	3165	0.25	140	2.2	52
1956	593693	5191352	1.0	59	7.2	705	28	0.10	1.5	0.22	2.9	11	26	1917	33	1.5	20	1.6	0.7	1.5	4176	0.25	72	1.5	45
1957	593514	5190408	3.0	46	7.3	509	27	0.14	2.1	0.60	6.9	24	29	5692	90	1.0	21	6.3	0.9	1.9	4658	0.25	71	2.0	64
1958	593647	5189468	3.0	51	7.4	187	27	0.12	2.5	0.94	7.1	27	35	5112	148	1.1	22	6.9	0.8	1.7	4429	0.25	63	3.1	72
1959	592371	5189288	3.0	25	7.3	306	27	0.07	2.3	0.33	9.0	40	19	12028	244	0.4	25	5.7	0.6	1.7	2131	0.25	268	1.2	70
1960	593870	5187543	5.0	68	7.4	92	27	0.17	1.0	0.88	5.0	20	31	4483	96	0.8	20	4.1	3.4	1.9	4281	0.25	75	2.3	70
1961	594463	5186077	2.0	47	7.2	92	27	0.08	2.1	0.58	10.7	37	29	10059	245	0.5	22	5.6	1.1	0.2	3512	0.25	141	2.7	73
1962	593858	5186038	1.0	53	7.3	83	27	0.01	3.4	0.74	6.2	27	25	4958	38	2.3	28	8.5	1.5	2.2	6397	0.25	130	2.7	71
1963	593845	5185565	2.0	47	7.2	93	27	0.07	3.1	0.68	12.4	40	29	11022	328	0.7	25	6.5	1.7	1.0	4569	0.25	146	3.0	96
1964	591919	5185570	5.0	56	7.3	43	27	0.19	0.3	0.65	2.7	15	41	4203	57	1.1	20	2.9	1.0	2.4	4536	0.25	78	1.5	69
1965	593589	5184576	1.0	59	8.1	92	27	0.14	4.1	0.72	14.9	38	43	8512	165	1.5	30	5.0	1.3	1.9	5694	0.25	124	3.1	99
1966	593535	5183573	1.0	70	8.0	132	28	0.05	3.0	0.76	5.7	15	35	3179	102	1.3	18	4.7	3.1	1.5	5941	0.25	54	2.0	62
1967	593105	5183369	3.0	47	7.9	127	27	0.23	3.6	0.47	5.0	25	86	5446	48	1.5	21	2.9	1.6	0.2	8464	0.25	88	2.7	61
1968	592572	5182300	2.0	52	7.7	180	27	0.08	7.1	0.45	5.6	23	116	3360	56	2.9	18	2.1	2.6	0.8	7086	0.25	84	4.4	53
1969	591892	5182288	7.0	49	7.8	102	26	0.05	3.2	0.36	5.0	30	22	8528	187	1.0	20	8.8	1.5	2.2	4749	0.25	152	1.7	65
1970	591455	5181781	1.0	60	7.8	331	27	0.06	5.9	0.26	4.5	25	41	5353	77	3.7	17	3.3	INF	INF	8076	0.25	95	5.1	65

Site	Easting	Northing	Lake	LOI	pH	Cond	Temp	Ag	As	Cd	Co	Cr	Cu	Fe	Mn	Mo	Ni	Pb	Pd	Pt	S	Sn	Ti	U	Zn
Number	Method------------------>		Depth	Grav	YSI	YSI	YSI	ICP-MS	INAA	ICP-MS	ICP-MS	ICP-OES	ICP-OES	ICP-OES	ICP-OES	ICP-MS	ICP-OES	ICP-MS	FAICPMS	FAICPMS	ICP-OES	ICP-MS	ICP-OES	ICP-MS	ICP-OES
	Detection Limit------->			0.1	0.01	1	0.01	0.02	0.5	0.050	0.05	4	5	5	1	0.10	5	0.05	0.3	0.3	30	0.50	3	0.05	2
	Units------------------>		m	%		µS/cm	°C	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm
	(NAD 83 Zone 17)																								
1971	592461	5181841	8.0	64	8.0	174	27	0.06	4.8	0.26	4.5	26	53	5787	153	3.7	16	3.3	INF	INF	6456	0.25	103	5.1	106
1972	591800	5179653	7.0	12	7.9	88	25	0.10	1.2	0.23	12.9	68	17	25648	581	0.3	38	5.0	0.7	1.1	835	0.25	584	1.3	85
1973	591861	5176514	5.0	44	7.7	62	26	0.17	3.4	0.78	11.3	56	39	10175	226	0.6	39	18.1	2.1	3.4	3202	0.25	296	1.5	96
1974	593097	5175867	3.0	38	7.5	50	26	0.07	1.3	0.61	8.7	40	24	9631	151	0.5	33	3.8	2.1	6.1	2634	0.25	185	1.2	85
1975	593629	5176849	14.0	NS	7.0	31	26	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1976	594667	5177716	4.0	42	6.8	36	26	0.12	1.3	0.60	18.8	73	28	21244	394	1.0	44	4.9	1.1	2.5	2753	0.25	690	1.4	151
1977	598989	5178404	5.0	33	6.8	42	25	0.18	3.1	0.78	22.3	84	30	35411	1109	1.0	62	9.4	2.4	5.4	3291	0.25	433	2.8	183
1978	597466	5176626	3.0	12	7.0	45	25	0.03	1.5	0.39	10.0	41	15	12894	270	0.7	30	3.2	0.3	0.5	1936	0.25	400	1.4	71
1979	596942	5175119	3.0	31	7.0	46	25	0.05	3.0	0.91	12.7	51	31	13354	338	1.2	36	6.4	0.7	1.4	5273	0.25	164	2.8	129
1980	593961	5173281	14.0	33	7.2	52	26	0.20	11.0	1.60	13.1	47	37	19308	426	0.8	46	73.7	1.3	3.0	5763	1.83	218	1.8	155
1981	596064	5172254	4.0	NS	7.2	41	24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1982	595781	5171504	8.0	41	7.1	53	26	0.19	4.4	0.90	8.6	36	30	13237	214	0.6	35	38.4	1.2	3.5	6387	1.19	219	1.6	91
1983	596098	5170857	4.0	61	7.0	109	27	0.14	2.1	0.84	3.4	17	32	3937	73	0.6	21	11.3	0.7	2.3	6132	0.25	69	2.3	71
1984	597658	5171415	14.0	57	6.8	27	26	0.20	1.1	0.50	10.8	29	31	13841	317	1.1	20	9.3	0.2	0.2	5705	0.25	135	1.7	67
1985	597517	5170270	8.0	49	6.6	34	26	0.13	2.5	0.94	11.3	39	29	10155	326	0.8	28	11.4	0.9	2.2	4705	0.25	270	2.8	92
1986	598664	5170354	13.0	62	6.3	25	26	0.08	1.8	0.46	1.8	10	25	3150	70	0.7	14	2.3	0.4	2.1	5037	0.25	50	1.1	52
1987	599905	5171795	46.0	NS	7.1	40	24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1988	600272	5170850	5.0	66	7.1	32	26	0.11	1.4	0.92	3.5	23	33	3785	103	1.0	20	4.8	0.2	0.2	5325	0.25	84	1.9	74
1989	600686	5170224	6.0	43	6.8	30	26	0.08	0.3	0.79	10.0	54	27	13243	344	0.8	29	4.2	0.6	1.7	2976	0.25	258	1.5	123
1990	599176	5169135	11.0	32	6.9	46	26	0.09	3.4	0.72	18.8	64	27	17276	522	0.8	37	6.1	0.8	2.2	2850	0.25	456	2.0	113
1991	598634	5168329	4.0	62	6.8	34	27	0.08	2.0	0.77	3.6	20	25	4202	79	0.6	20	7.1	0.5	1.9	4450	0.25	92	1.3	64
1992	599682	5167919	4.0	19	6.7	65	27	0.01	0.5	0.36	5.9	34	11	8124	159	0.2	19	4.8	0.5	1.3	1496	0.25	406	1.1	50
1993	601142	5166108	14.0	25	6.8	64	26	0.10	1.7	0.48	13.0	48	18	16159	449	0.6	26	11.1	0.7	2.2	1779	0.25	368	1.3	70
1994	603308	5163990	18.0	29	6.9	60	25	0.08	1.5	0.51	22.4	46	18	18492	684	0.8	24	9.1	0.6	1.7	1865	0.25	355	1.4	75
1995	605020	5162372	16.0	35	6.8	54	25	0.16	7.1	1.54	35.4	49	29	32061	1743	1.6	36	32.0	1.1	2.8	3319	1.04	317	1.6	144
1996	604829	5160994	2.0	NS	6.7	53	24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1997	609102	5158920	4.0	55	6.3	27	26	0.13	0.3	0.50	1.8	10	19	3023	65	1.2	8	2.7	0.4	1.8	3248	0.25	89	0.9	28
1998	611242	5158613	8.0	51	5.4	25	27	0.09	0.3	0.61	2.2	17	17	5281	72	0.8	11	4.5	0.4	1.5	2921	0.25	119	1.1	34
1999	613245	5152832	3.0	44	5.1	20	26	0.06	1.2	0.56	2.3	19	19	3206	50	0.5	16	3.8	0.2	1.2	2646	0.25	125	1.2	36
2000	613584	5155924	7.0	32	5.5	22	26	0.08	2.6	0.82	4.8	26	14	11245	157	0.9	17	17.0	0.5	1.6	3025	0.67	364	1.2	64
2001	614854	5157807	4.0	34	5.9	25	27	0.07	0.5	0.70	3.9	24	14	11392	166	0.8	15	7.4	0.4	1.4	2256	0.25	516	1.1	76
2002	613625	5158081	1.0	43	6.1	24	26	0.11	2.1	1.60	6.2	23	22	19167	151	3.1	23	7.9	0.5	1.3	3387	0.25	339	1.6	165
2003	613081	5159409	9.0	42	6.2	23	26	0.20	5.7	1.21	6.8	25	23	15078	312	1.5	21	32.9	0.7	1.8	4018	1.18	260	1.0	89
2004	611611	5159667	1.0	49	5.9	24	27	0.04	1.4	0.37	1.4	9	15	1692	29	0.9	13	6.6	0.2	0.6	3000	0.25	86	0.7	18
2005	609140	5162143	7.0	43	5.7	23	27	0.13	1.2	0.49	2.0	17	22	4326	78	1.3	11	4.7	0.2	0.2	2825	0.25	90	1.0	42
2006	605811	5165531	7.0	NS	6.2	25	24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2007	605035	5167258	8.0	47	6.1	24	27	0.12	2.7	0.84	3.1	25	21	7030	115	0.8	18	13.7	0.2	0.6	3275	0.72	175	1.1	73
2008	603537	5167864	4.0	51	5.7	23	27	0.12	1.8	0.78	3.9	31	25	4131	84	0.6	22	9.6	0.6	0.2	3424	0.25	137	1.3	72
2009	604555	5168880	8.0	NS	5.9	27	25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2010	603115	5169059	4.0	40	6.0	25	26	0.09	1.2	0.53	3.8	32	22	6042	85	0.4	20	4.4	0.2	0.2	2680	0.25	147	1.6	54
2011	603402	5173952	6.0	40	6.1	34	26	0.10	1.2	0.78	9.0	51	26	12473	304	0.8	28	6.3	0.6	0.2	3119	0.25	237	1.9	96
2012	602646	5174909	7.0	18	6.4	36	25	0.07	1.0	0.51	15.8	61	15	22788	424	0.4	39	6.0	0.2	0.8	1035	0.25	490	1.2	112
2013	603343	5177091	3.0	13	6.6	37	26	0.03	1.1	0.27	10.1	49	12	14786	239	0.3	31	4.6	0.2	0.7	1096	0.25	476	1.0	72
2014	602191	5177609	8.0	61	6.4	25	27	0.15	1.0	0.78	2.4	14	36	5408	81	2.8	13	3.1	0.2	0.2	4566	0.25	88	1.6	76
2015	601341	5177650	2.0	NS	6.4	39	27	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2016	593633	5180646	4.0	NS	6.8	80	26	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2017	594659	5184733	3.0	60	7.1	81	26	0.12	3.8	0.78	11.5	37	47	7604	145	1.7	33	5.9	INF	INF	5735	0.25	139	3.1	99
2018	594886	5189756	8.0	39	7.3	69	25	0.12	1.7	0.69	13.1	42	27	15120	268	0.7	31	10.5	1.1	1.9	3282	0.25	298	2.3	95
2019	587841	5167269	2.0	NS	7.4	47	25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2020	587039	5165736	1.0	43	7.2	92	24	0.18	2.0	0.55	4.1	37	39	5301	47	0.3	19	7.0	1.8	1.0	2947	0.25	113	5.7	34
2021	586796	5165988	14.0	74	5.6	21	26	0.23	1.2	0.96	2.7	9	65	3201	60	1.4	12	2.0	0.2	0.2	5605	0.25	65	1.3	96
2022	587085	5164281	1.0	35	6.7	180	26	0.11	3.0	0.49	4.2	31	62	7684	55	1.4	27	6.9	1.7	0.2	8077	0.25	255	1.2	70
2023	586164	5161214	12.0	60	7.5	55	26	0.21	2.4	0.83	9.0	27	55	12196	309	1.5	25	7.9	0.6	0.2	7580	0.25	132	1.0	94
2024	583632	5163003	1.0	72	7.3	37	25	0.07	2.8	0.71	6.3	30	37	7954	231	1.3	24	6.3	1.4	0.9	6965	0.25	151	2.8	62
2025	582497	5162654	2.0	59	6.9	40	26	0.08	2.3	0.72	5.3	29	27	5824	88	1.0	24	5.7	0.8	0.2	3694	0.25	119	1.1	71
2026	577480	5158051	1.0	82	5.2	27	19	0.10	INF	0.54	1.5	15	28	2102	46	0.6	17	12.2	INF	INF	4207	0.25	85	1.2	31
2027	579737	5157681	6.0	29	6.2	122	24	0.10	2.0	1.06	10.8	34	21	9905	258	0.8	22	14.9	0.8	1.4	3410	0.25	315	1.5	81
2028	581432	5158257	6.0	30	6.8	62	25	0.15	2.1	1.06	18.4	54	27	20055	492	0.4	33	8.2	0.9	1.0	2434	0.25	339	1.3	127
2029	584452	5157808	1.0	NS	5.8	35	21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2030	583350	5155791	1.0	88	5.5	17	25	0.20	3.4	0.68	2.9	10	30	3794	132	0.8	18	20.2	0.2	0.2	4322	0.25	73	2.8	39
2031	582962	5155045	1.0	NS	5.5	18	26	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2032	581449	5155987	2.0	60	5.1	22	26	0.09	1.2	0.59	2.7	16	31	2299	52	0.7	15	4.6	0.2	0.8	3231	0.25	97	1.6	38
2033	581086	5153753	1.0	48	5.4	25	24	0.09	1.4	0.41	2.7	33	17	4748	41	0.5	16	5.6	0.2	0.2	3006	0.25	109	2.1	11
2034	581323	5150405	3.0	69	5.8	31	25	0.15	1.6	1.24	2.3	17	44	5318	67	2.3	17	3.0	INF	INF	4444	0.25	98	2.1	110
2035	576077	5147079	6.0	NS	6.4	48	25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2036	576042	5144128	4.0	23	6.7	41	26	0.08	1.9	0.57	13.1	41	21	13918	324	1.0	29	3.6	0.6	0.6	2776	0.25	365	1.3	105
2037	575811	5143640	4.0	38	6.9	40	26	0.14	2.9	0.70	16.2	59	37	18819	492	1.6	41	6.1	0.9	1.8	3819	0.25	354	1.8	147
2038	574252	5144878	1.0	42	7.0	41	26	0.12	3.7	1.63	17.2	48	40	15742	578	2.2	40	7.2	0.8	0.9	5627	0.25	224	1.9	167
2039	574011	5145821	14.0	39	6.9	34	26	0.12	2.0	0.73	11.8	65	36	19450	413	1.8	41	7.7	0.6	0.9	2581	0.25	531	2.1	110
2040	573729	5146437	3.0	60	6.8	34	26	0.10	3.4	0.86	9.3	51	51	10851	402	4.0	39	4.6	1.2	0.9	5855	0.25	417	3.2	76
2041	572593	5147537	2.0	46	6.8	54	26	0.11	3.2	0.89	9.7	39	38	13177	457	3.4	31	4.2	0.8	0.2	8816	0.25	154	1.9	111
2042	573793	5148376	9.0	38	7.1	60	25	0.17	4.3	1.05	8.6	50	37	16183	244	1.2	34	14.1	0.6	0.2	4867	0.25	223	1.9	125
2043	573771	5149645	3.0	46	7.3	59	26	0.12	3.7	0.93	10.0	44	48	14488	459	2.4	35	6.5	1.0	0.9	7681	0.25	236	2.8	92
2044	572338	5148873	2.0	25	7.3	59	25	0.05	3.1	0.35	10.0	52	46	22158	400	4.7	40	5.3	1.6	1.6	9087	0.25	567	4.0	53
2045	570756	5147602	4.0	40	7.3	36	26	0.09	2.3	0.93	10.4	49	31	14474	291	0.8	35	6.0	0.7	0.7	2647	0.25	292	1.3	113
2046	570001	5145450	7.0	35	7.3	82	26	0.15	3.7	0.99	11.7	56	29	20025	356	0.7	40	14.8	0.9	0.7	3788	0.25	322	1.3	135
2047	568515	5145225	4.0	30	7.5	82	26	0.10	3.7	0.79	13.4	70	30	22554	437	0.7	47	8.6	1.0	0.8	2688	0.25	450	1.5	142
2048	560824	5145647	8.0	42	7.5	47	26	0.17	2.4	0.78	12.3	52	37	15135	426	0.8	35	6.7	0.8	0.2	3396	0.25	292	1.7	102
2049	560689	5146781	1.0	20	7.2	72	26	0.08	2.4	0.61	12.6	49	25	17876	341	0.6	40	6.3	0.7	1.5	2518	0.25	511	1.6	100
2050	559970	5146782	4.0	27	7.3	71	25	0.19	2.0	0.94	23.0	77	32	28516	487	0.7	65	9.1	0.8	1.5	2135	0.25	517	1.6	166
2051	561161	5148518	3.0	16	7.4	72	26	0.15	2.1	0.60	17.5	72	28	25675	425	0.5	53	6.8	1.1	1.1	1347	0.25	708	1.6	122
2052	560451	5149038	4.0	18	7.5	73	26	0.11	3.1	0.68	17.3	68	27	25512	419	0.4	52	7.5	0.8	0.9	1513	0.25	606	1.4	122
2053	563157	5147681	3.0	37	7.5	81	27	0.19	2.5	1.00	11.1	53	34	16574	217	0.5	41	7.7	0.8	1.6	3902	0.25	320	1.6	107
2054	564455	5149209	8.0	36	7.4	56	26	0.10	3.6	0.79	12.0	55	40	18250	384	1.3	43	8.7	1.0	0.8	4322	0.25	412	2.0	89
2055	564177	5150956	6.0	78	6.6	26	25	0.26	2.0	1.09	2.9	13	50	4536	98	3.1	14	3.2	INF	INF	4948	0.25	82	1.1	77
2056	552051	5154431	1.0	63	5.9	32	23	0.04	2.4	0.33	5.3	19	22	3690	36	1.4	26	1.8	0.7	0.2	4431	0.25	127	1.4	41
2057	568326	5154216	1.0	31	6.4	94	26	0.06	2.1	0.32	5.1	34	35	9246	126	0.7	24	8.2	0.7	0.6	3343	0.25	411	0.7	61
2058	569623	5154385	2.0	29	6.8	209	26	0.02	3.1	0.25	4.8	26	16	6855	82	1.3	17	4.2	0.2	0.2	2275	0.25	258	1.5	34
2059	568356	5151860	1.0	NS	7.1	231	28	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2060	572892	5152243	3.0	16	8.1	266	26	0.01	5.6	0.11	8.0	37	21	11251	124	1.3	21	4.3	0.8	0.8	3080	0.25	456	1.8	48
2061	576443	5150850	2.0	NS	8.0	87	27	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2062	573815	5158329	1.0	NS	7.3	66	26	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2063	574566	5161178	1.0	29	6.7	43	27	0.13	1.6	0.68	3.6	41	65	6290	57	0.2	18	6.1	2.0	0.8	1660	0.25	68	26.1	18
2064	574034	5165347	2.0	62	6.7	82	27	0.13	1.6	0.58	4.6	21	31	2695	68	0.7	23	5.6	0.7	0.2	5000	0.25	93	2.4	20
2065	575711	5165989	4.0	64	7.3	178	27	0.06	4.1	0.45	3.9	11	22	6648	107	1.8	14	5.7	1.5	0.2	6993	0.25	61	2.0	60
2066	575847	5167276	2.0	NS	7.6	206	27	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Site	Easting	Northing	Lake	LOI	pH	Cond	Temp	Ag	As	Cd	Co	Cr	Cu	Fe	Mn	Mo	Ni	Pb	Pd	Pt	S	Sn	Ti	U	Zn
Number	Method------------------>		Depth	Grav.	YSI	YSI	YSI	ICP-MS	INAA	ICP-MS	ICP-MS	ICP-OES	ICP-OES	ICP-OES	ICP-OES	ICP-MS	ICP-OES	ICP-MS	FAICPMS	FAICPMS	ICP-OES	ICP-MS	ICP-OES	ICP-MS	ICP-OES
	Detection Limit--------->			0.1	0.01	1	0.01	0.02	0.5	0.050	0.05	4	5	5	1	0.10	5	0.05	0.3	0.3	30	0.50	3	0.05	2
	Units------------------>		m	%		µS/cm	°C	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm
	(NAD 83 Zone 17)																								
2067	574342	5173965	3.0	65	7.8	52	27	0.19	3.3	0.59	7.4	21	38	5236	134	2.1	27	7.8	1.0	0.6	5338	0.25	100	1.8	74
2068	574935	5174477	11.0	36	7.5	41	26	0.18	3.4	0.63	11.8	60	39	18597	439	1.6	41	11.6	1.2	1.0	3874	0.25	384	2.3	106
2069	576406	5174721	4.0	NS	7.4	69	26	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2070	583728	5181253	12.0	13	7.6	80	26	0.11	3.0	0.41	13.6	57	31	25062	841	0.6	38	7.1	0.8	1.3	796	0.25	439	2.1	85
2071	583858	5179709	13.0	NS	7.6	77	25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2072	583495	5178035	32.0	20	7.6	77	25	0.20	8.1	0.90	17.4	68	39	40377	1880	1.0	47	23.6	1.0	0.8	1755	0.58	430	2.2	132
2073	583459	5176575	10.0	NS	7.5	77	25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2074	582140	5177443	4.0	64	7.5	44	26	0.16	1.5	0.64	5.9	18	40	2370	46	2.0	25	3.8	0.2	0.2	4646	0.25	101	3.4	84
2075	580769	5175492	1.0	51	7.1	31	27	0.16	2.2	0.57	7.2	31	38	5781	85	1.3	32	4.0	0.6	0.2	3638	0.25	182	1.9	73
2076	580950	5174895	1.0	59	6.6	33	28	0.14	1.9	0.67	5.8	25	35	3745	52	1.0	33	6.1	1.0	2.4	3951	0.25	175	1.9	52
2077	582262	5175163	14.0	15	6.9	76	25	0.10	1.6	0.31	10.8	53	20	17906	311	0.4	33	7.0	0.2	0.7	1216	0.25	449	1.3	79
2078	583126	5173318	2.0	78	7.2	50	26	0.12	2.2	0.65	3.9	15	30	2353	70	1.5	12	2.8	INF	INF	4269	0.25	95	0.7	91
2079	581239	5173996	12.0	13	7.3	73	25	0.04	1.4	0.43	17.9	57	18	26282	798	0.5	37	5.2	0.8	0.9	874	0.25	441	1.5	101
2080	582524	5171149	2.0	NS	7.3	80	26	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2081	584451	5170665	1.0	63	8.6	147	27	0.04	4.6	0.35	4.1	12	24	5299	88	3.4	11	4.1	1.5	1.6	8752	0.25	49	1.7	60
2082	584924	5170841	5.0	70	8.6	117	27	0.10	2.7	0.69	6.9	15	29	5700	150	1.8	19	8.5	0.8	0.6	5143	0.25	90	0.8	91
2083	584720	5170174	4.0	75	8.2	78	27	0.10	2.3	0.74	5.7	14	26	5786	107	1.8	17	6.6	INF	INF	5855	0.25	71	0.7	115
2084	581320	5167591	9.0	59	7.8	112	27	0.16	1.3	0.76	11.6	21	26	10163	296	1.1	16	9.9	0.6	0.2	4122	0.25	151	1.5	64
2085	579542	5167778	12.0	53	7.5	64	26	0.30	15.0	1.63	19.6	32	65	17297	487	1.7	53	76.5	2.5	1.5	12743	1.93	204	1.4	148
2086	577977	5166733	10.0	70	7.3	106	27	0.13	1.7	0.72	2.5	10	28	3686	102	1.2	10	3.6	0.2	0.2	4248	0.25	89	0.8	35
2087	573132	5166330	4.0	60	7.0	NM	27	0.17	1.9	0.59	3.5	16	32	3058	64	1.0	20	4.9	0.2	0.2	4038	0.25	96	1.0	41
2088	561156	5163667	1.0	NS	6.8	29	28	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2089	561056	5164327	1.0	43	6.5	26	28	0.12	3.6	0.54	4.3	20	39	5460	56	0.3	34	15.7	3.6	2.1	2983	0.25	92	5.1	29
2090	551238	5168691	7.0	36	6.7	34	26	0.11	6.1	0.92	14.6	54	49	44898	530	1.4	44	9.4	1.8	1.4	3572	0.25	224	3.1	127
2091	551742	5169412	5.0	22	6.8	33	26	0.09	5.5	0.76	17.1	49	36	45778	632	1.3	38	6.4	1.5	2.4	2027	0.25	279	2.6	120
2092	552934	5169654	5.0	24	6.9	38	26	0.16	8.7	0.73	14.5	51	53	29614	383	0.8	49	12.7	2.5	2.9	3034	0.25	340	1.9	101
2093	553716	5168451	5.0	26	7.0	39	27	0.13	4.4	0.59	11.1	43	48	25741	376	0.9	38	8.8	0.8	0.2	3301	0.25	271	1.9	80
2094	556504	5168402	5.0	63	6.8	30	29	0.08	1.2	0.61	2.5	6	37	2870	96	1.1	11	1.9	1.6	0.9	3854	0.25	65	0.4	37
2095	557204	5170089	9.0	62	5.9	25	28	0.12	1.5	0.49	2.5	10	46	3722	71	1.1	14	2.3	2.6	0.7	4130	0.25	74	0.9	38
2096	557554	5171615	3.0	59	5.3	25	29	0.05	1.5	0.51	2.6	13	31	3959	86	1.0	14	2.3	1.1	0.2	3353	0.25	93	2.0	40
2097	556636	5172509	16.0	37	6.0	32	26	0.22	6.6	0.89	33.8	56	52	48608	810	2.4	48	14.2	2.2	1.6	3406	0.51	300	4.9	144
2098	556370	5173499	11.0	48	6.1	NM	27	0.24	5.3	1.05	16.7	40	56	17933	575	1.2	36	24.7	2.4	1.3	4739	0.56	181	3.5	102
2099	557044	5173754	6.0	19	6.5	33	27	0.09	4.5	0.58	19.5	46	29	25678	709	1.1	42	9.2	1.8	1.5	1551	0.25	377	3.0	97
2100	557496	5173215	3.0	55	6.1	24	27	0.08	1.4	0.57	3.2	18	34	2854	59	0.8	20	4.7	0.2	0.2	3707	0.25	111	2.6	44
2101	557843	5172560	3.0	64	5.0	30	28	0.16	3.0	0.95	3.8	7	54	1977	134	1.8	37	8.1	1.2	0.2	5159	0.25	64	2.0	106
2102	561615	5173915	2.0	67	5.5	30	27	0.10	1.9	0.70	8.9	26	36	8715	127	2.2	24	2.6	INF	INF	6092	0.25	145	4.5	91
2103	559933	5175212	3.0	55	5.6	22	28	0.09	2.0	0.52	3.5	17	33	2614	42	0.9	26	7.5	0.8	0.2	3814	0.25	122	3.8	35
2104	559147	5175899	2.0	60	5.6	21	28	0.11	1.7	0.66	3.2	17	39	3354	66	0.9	17	4.1	0.8	1.8	3856	0.25	93	3.2	69
2105	559105	5177032	1.0	57	6.0	37	29	0.12	4.1	1.00	6.9	18	59	4139	46	1.6	54	19.7	2.2	1.3	7254	0.25	89	6.5	70
2106	559888	5177683	4.0	59	6.3	36	28	0.16	2.8	0.83	7.8	34	59	6948	105	2.1	33	7.5	1.5	1.8	5347	0.25	169	8.4	97
2107	561752	5177224	1.0	61	6.4	32	28	0.06	1.7	0.48	4.5	25	31	4825	63	0.9	25	3.1	1.1	0.7	3819	0.25	126	4.6	29
2108	562266	5176464	2.0	58	6.0	22	28	0.10	2.2	0.63	3.6	9	23	1265	37	0.9	27	5.9	0.6	1.6	3608	0.25	91	2.3	55
2109	562046	5174705	4.0	57	5.7	26	29	0.13	2.7	1.11	6.0	42	43	11059	141	2.3	28	4.6	1.5	2.9	4713	0.25	190	5.4	122
2110	563015	5175047	6.0	60	5.2	25	28	0.10	1.3	0.55	4.2	16	24	6848	88	1.2	19	5.1	0.4	1.4	3808	0.25	109	2.7	44
2111	564192	5173173	7.0	63	5.3	24	27	0.13	3.3	0.81	10.8	23	31	4966	76	6.2	27	5.7	1.1	0.8	5011	0.25	128	4.3	89
2112	563589	5173293	4.0	59	4.9	28	27	0.11	1.5	0.54	3.9	12	36	2218	44	4.4	20	4.9	2.4	0.6	3979	0.25	90	7.5	46
2113	562602	5172297	1.0	54	4.7	30	29	0.12	3.9	0.48	3.7	21	38	3428	47	1.8	33	12.4	1.7	4.0	3110	0.25	150	14.0	23
2114	563314	5171081	2.0	60	4.7	26	28	0.14	1.8	0.57	4.4	20	33	2900	41	1.4	33	6.9	1.2	0.9	3805	0.25	134	1.6	49
2115	562826	5165419	1.0	30	6.0	72	29	0.11	4.2	0.96	9.1	28	22	7371	134	1.2	29	15.4	1.9	1.2	4412	0.25	236	2.3	52
2116	563480	5165241	1.0	NS	6.3	64	29	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2117	563887	5165527	1.0	26	6.4	65	27	0.14	3.7	0.94	9.1	26	28	8125	224	0.9	41	20.4	2.1	2.1	3399	0.63	272	1.2	60
2118	569352	5168028	2.0	61	6.3	26	30	0.46	1.3	0.62	3.2	21	45	3031	69	0.7	19	9.2	1.0	0.2	3217	0.25	42	5.6	18
2119	572906	5170787	1.0	65	6.2	31	29	0.11	2.4	0.64	5.1	13	22	2618	76	1.0	20	3.0	0.2	0.2	4161	0.25	82	0.9	51
2120	574040	5172337	1.0	65	4.6	33	29	0.26	2.1	0.75	6.0	21	43	3156	68	1.1	35	14.1	1.3	1.0	5736	0.25	58	2.5	42
2121	577937	5169427	7.0	25	5.8	65	26	0.13	1.6	0.44	13.1	52	20	15567	252	0.6	36	5.1	0.8	0.7	1732	0.25	383	0.8	86
2122	579475	5171048	11.0	17	6.6	71	26	0.11	2.7	0.60	11.9	59	21	21717	485	0.5	37	8.7	1.2	0.8	1513	0.25	466	1.0	91
2123	576502	5172701	6.0	NS	6.8	71	26	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2124	577640	5174603	10.0	7	7.0	71	26	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD
2125	579057	5174533	2.0	NS	7.1	74	27	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2126	578131	5177392	2.0	65	7.1	35	28	0.19	2.0	0.75	3.4	14	32	2729	46	1.1	23	5.3	0.7	0.2	5230	0.25	94	1.1	83
2127	580901	5179004	7.0	44	6.9	40	28	0.29	2.8	0.81	7.2	25	38	7577	190	0.9	22	10.1	0.8	0.2	4330	0.25	135	1.7	78
2128	582815	5180087	1.0	56	6.9	37	30	0.12	1.3	0.55	2.0	9	39	2359	55	2.0	13	1.8	0.2	0.2	4218	0.25	89	2.1	46
2129	585670	5181370	9.0	45	7.0	56	27	0.25	3.0	0.90	9.4	44	44	16383	613	1.6	27	11.0	1.3	0.8	5190	0.25	173	2.6	122
2130	586198	5182354	3.0	NS	4.8	32	30	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2131	588717	5184731	8.0	56	5.8	50	27	0.22	2.6	0.76	7.2	34	39	7886	290	0.6	21	7.7	0.9	2.3	3684	0.25	142	1.7	69
2132	589421	5185768	5.0	54	6.3	26	27	0.17	1.7	0.50	6.7	36	34	4745	84	0.8	28	4.3	0.7	0.2	3678	0.25	154	1.2	56
2133	589375	5186554	18.0	43	6.7	51	25	0.29	6.6	1.23	18.1	44	43	18275	509	0.7	41	37.2	1.5	1.1	4388	1.10	203	1.5	132
2134	590038	5187620	10.0	39	6.9	53	27	0.19	2.0	0.59	10.8	43	28	13693	347	0.7	26	6.4	0.8	0.8	2582	0.25	228	1.6	103
2135	589925	5188792	5.0	76	6.9	51	29	0.19	1.9	1.16	2.4	10	60	4850	74	3.1	15	2.6	INF	INF	5222	0.25	64	1.1	129
2136	591388	5189374	6.0	59	7.0	50	27	0.19	3.5	0.93	6.7	35	38	9918	254	1.6	24	6.4	1.0	0.8	4458	0.25	174	1.9	83
2137	575893	5175203	1.0	61	7.0	34	27	0.18	2.1	0.52	3.6	21	38	2255	32	1.7	32	4.6	0.9	1.5	4873	0.25	94	1.8	41
2138	575089	5174363	13.0	51	6.9	41	26	0.35	4.4	1.04	11.5	53	51	15856	782	1.8	32	14.1	1.3	1.1	5656	0.25	194	2.3	108
2139	574375	5173857	2.0	63	7.0	45	28	0.17	2.8	0.63	7.0	24	34	4816	117	2.0	25	4.0	1.0	0.6	4503	0.25	123	1.7	70
2140	574151	5174084	4.0	61	6.3	24	21	0.21	1.4	0.44	1.5	9	29	1262	29	1.4	13	1.4	2.7	0.9	4094	0.25	71	0.9	33
2141	573448	5174319	6.0	56	5.7	26	27	0.20	1.6	0.68	2.8	16	32	3854	53	1.2	20	3.3	1.1	0.9	4039	0.25	109	1.3	52
2142	572428	5173675	3.0	46	5.6	29	28	0.19	1.8	0.52	4.2	24	26	3690	56	0.8	26	5.4	0.2	0.2	3803	0.25	97	1.2	48
2143	573615	5173311	1.0	68	5.5	21	28	0.08	3.1	0.49	2.6	11	21	2174	46	2.5	24	3.4	0.2	0.2	3581	0.25	74	0.9	20
2144	571052	5173276	7.0	40	5.5	25	28	0.20	1.4	0.45	9.7	45	29	11380	168	0.8	29	5.2	0.9	0.7	2758	0.25	275	1.4	69
2145	570355	5173466	24.0	47	6.3	51	27	0.36	7.5	0.92	14.8	47	45	19367	876	2.4	29	11.6	1.4	0.8	3579	0.25	207	4.8	105
2146	568784	5172147	4.0	57	6.7	38	28	0.25	4.7	0.59	6.4	17	44	11169	121	4.6	17	3.9	1.4	1.5	7191	0.25	87	2.6	79
2147	569358	5168997	7.0	82	5.6	21	25	0.32	0.7	0.92	2.7	9	46	3166	146	2.1	17	3.2	0.2	0.2	4739	0.25	82	1.1	153
2148	568338	5168925	1.0	42	5.3	22	29	0.13	0.9	0.31	3.6	22	17	4732	80	0.7	18	3.5	0.2	0.8	2837	0.25	117	1.4	12
2149	569179	5169699	1.0	56	5.2	28	31	0.10	1.0	0.27	2.9	19	24	1823	33	0.5	23	2.8	0.4	1.1	3226	0.25	106	1.7	10
2150	566850	5170023	1.0	65	5.3	24	28	0.11	3.7	0.45	5.1	14	25	3563	53	1.4	21	3.0	0.8	2.2	4015	0.25	100	1.6	31
2151	565974	5169838	1.0	66	5.1	25	29	0.09	1.1	0.44	2.9	12	25	2537	69	0.9	16	3.7	0.2	0.2	3987	0.25	101	1.4	29
2152	564409	5170631	6.0	55	5.2	24	28	0.10	1.7	0.43	3.9	21	26	4262	94	0.9	21	4.3	0.2	0.2	3536	0.25	132	1.2	48
2153	566287	5172661	10.0	NS	5.4	24	27	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2154	566854	5173303	25.0	50	5.6	24	26	0.20	3.7	0.89	18.4	51	39	13268	689	2.0	27	8.7	0.8	1.6	3990	0.25	234	2.6	98
2155	567356	5173776	10.0	47	5.6	24	27	0.16	1.9	0.71	9.4	48	33	9671	245	1.2	29	8.0	0.7	0.8	3853	0.25	231	2.3	84
2156	566486	5174208	9.0	51	5.8	27	27	0.18	5.3	1.00	13.0	27	37	14026	309	1.2	29	18.1	1.0	0.9	4499	0.25	137	2.3	75
2157	566645	5175172	1.0	68	5.6	19	26	0.15	3.0	0.82	3.2	27	30	2492	86	0.8	30	11.7	0.2	0.2	6472	0.25	65	3.0	28
2158	564430	5174378	5.0	62	4.8	26	24	0.13	1.4	0.44	2.0	6	25	2931	51	2.9	9	1.7	0.2	0.2	3612	0.25	63	2.2	27
2159	564049	5174463	5.0	69	4.7	27	26	0.09	0.9	0.44	2.6	6	24	2986	61	2.4	10	2.0	0.2	0.2	3586	0.25	71	2.5	21
2160	564227	5175432	4.0	53	5.1	24	26	0.11	1.8	0.74	3.0	19	31	5852	82	1.1	18	4.6	0.7	0.6	3892	0.25	101	2.7	48
2161	564267	5175995	4.0	54	5.6	29	26	0.12	2.2	0.74	3.3	12	27	6569	77	1.0	17	7.9	0.2	0.2	4346	0.25	87	2.2	48
2162	564690	5176642	1.0	86	5.8	25	29	0.08	3.6	1.16	6.5	10	38	2905	128	1.1	49	24.8	INF	INF	6045	0.25	72	4.0	48

Site	Easting	Northing	Lake	LOI	pH	Cond	Temp	Ag	As	Cd	Co	Cr	Cu	Fe	Mn	Mo	Ni	Pb	Pd	Pt	S	Sn	Ti	U	Zn
Number	Method---------------->		Depth	Grav.	YSI	YSI	YSI	ICP-MS	INAA	ICP-MS	ICP-MS	ICP-OES	ICP-OES	ICP-OES	ICP-OES	ICP-MS	ICP-OES	ICP-MS	FAICPMS	FAICPMS	ICP-OES	ICP-MS	ICP-OES	ICP-MS	ICP-OES
	Detection Limit-------->			0.1	0.01	1	0.01	0.02	0.5	0.050	0.05	4	5	5	1	0.10	5	0.05	0.3	0.3	30	0.50	3	0.05	2
	Units---------------->		m	%		µS/cm	°C	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm
	(NAD 83 Zone 17)																								
2163	563426	5177227	10.0	72	5.5	21	29	0.13	1.7	0.97	2.9	10	35	3835	125	1.6	14	3.2	0.2	0.2	4885	0.25	74	2.1	73
2164	564197	5177265	1.0	55	5.5	26	29	0.11	2.2	0.57	3.4	18	39	2441	37	0.4	24	7.6	1.2	0.8	3806	0.25	125	7.2	17
2165	565020	5177113	10.0	57	5.4	25	28	0.17	2.0	0.60	3.2	16	39	5416	81	1.2	20	5.0	0.2	0.2	4415	0.25	110	2.5	59
2166	566675	5177622	10.0	75	4.8	18	26	0.27	2.5	1.16	3.4	12	69	7004	148	2.4	15	3.0	0.2	0.2	5570	0.25	78	2.1	125
2167	566505	5176454	4.0	53	5.1	25	27	0.16	1.8	0.76	5.5	28	35	4222	98	1.0	24	4.2	0.2	0.2	3290	0.25	146	1.9	64
2168	567105	5176035	1.0	NS	5.7	20	30	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2169	568272	5175384	11.0	43	6.1	32	26	0.21	6.0	0.92	16.8	55	54	22680	450	2.1	41	13.2	1.6	1.1	3603	0.25	244	4.3	121
2170	568673	5177504	6.0	53	6.2	30	27	0.18	3.0	0.61	4.2	23	34	9577	130	1.6	19	6.7	0.9	0.2	3944	0.25	130	1.6	73
2171	568676	5176843	1.0	44	6.2	44	28	0.08	2.4	0.59	3.7	17	34	2194	36	1.4	22	2.6	1.1	1.0	4071	0.25	82	4.5	39
2172	568794	5173267	3.0	65	6.3	25	28	0.09	1.8	0.75	9.0	21	24	3144	76	1.3	28	3.2	0.2	0.2	4281	0.25	64	1.5	77
2173	569473	5174005	4.0	63	6.0	24	27	0.18	3.1	0.66	3.0	18	38	7799	65	1.5	17	4.7	0.2	0.2	4954	0.25	67	2.2	75
2174	570358	5174969	4.0	41	6.3	53	27	0.13	4.9	1.05	15.5	40	27	12640	390	1.4	28	6.0	1.2	1.3	3240	0.25	202	4.6	108
2175	570278	5177141	2.0	52	6.7	26	28	0.10	1.9	0.51	3.9	24	27	2285	38	0.7	23	5.2	0.7	0.2	3613	0.25	109	4.6	18
2176	572632	5177514	3.0	46	6.5	50	28	0.21	11.0	1.78	27.5	40	40	17894	578	2.1	35	16.1	1.5	0.9	5105	0.25	184	6.3	166
2177	572267	5177100	7.0	40	6.8	33	28	0.18	7.8	0.91	16.9	48	35	14247	235	1.2	29	8.5	1.5	0.9	3034	0.25	226	5.6	115
2178	571921	5176214	1.0	39	6.9	63	28	0.18	16.0	1.68	48.9	65	55	25027	1890	4.2	54	11.0	2.6	1.2	9656	0.25	457	8.0	215
2179	575900	5176299	2.0	38	7.1	71	26	0.24	5.5	0.66	17.0	71	94	23535	356	3.1	51	5.6	3.1	1.8	5286	0.25	835	5.4	141
2180	577024	5182040	6.0	42	7.2	33	28	0.16	2.9	0.55	6.7	34	42	5766	72	1.0	22	6.4	1.1	0.7	3305	0.25	115	10.5	64
2181	577759	5182758	3.0	62	6.6	32	25	0.07	2.2	0.60	2.6	5	19	1338	43	1.7	14	3.1	0.2	0.2	3713	0.25	49	4.4	69
2182	578706	5183104	3.0	42	6.6	48	27	0.17	2.7	1.10	6.1	27	48	6670	197	1.3	29	8.6	1.0	0.2	4825	0.25	110	3.9	132
2183	578588	5182028	1.0	59	6.9	38	27	0.11	1.8	0.38	3.0	10	28	1098	19	1.7	20	3.7	0.2	0.2	4118	0.25	67	5.5	26
2184	579678	5182589	8.0	44	7.0	54	27	0.14	4.9	0.78	7.2	35	65	7587	192	2.5	26	7.3	1.7	1.0	4368	0.25	159	6.9	87
2185	581853	5184218	3.0	53	7.1	54	28	0.07	2.9	0.70	6.6	14	47	2059	56	1.8	25	2.7	0.6	0.2	4122	0.25	79	4.5	69
2186	581483	5185701	1.0	75	7.2	51	29	0.09	2.5	0.51	4.2	15	27	2294	44	1.3	18	4.5	INF	INF	4216	0.25	103	1.3	49
2187	581576	5186700	1.0	68	7.1	60	29	0.01	2.8	0.54	2.8	11	41	1777	28	1.8	24	3.4	1.1	0.2	5485	0.25	73	1.2	59
2188	583947	5187195	1.0	48	7.2	115	30	0.04	3.2	0.28	6.5	25	40	8565	123	1.5	27	3.5	0.7	0.6	4140	0.25	193	1.1	47
2189	583108	5188884	1.0	73	7.4	92	28	0.06	2.7	0.50	3.8	10	59	2242	50	2.7	23	2.3	INF	INF	6235	0.25	57	1.1	67
2190	583525	5189410	1.0	71	6.5	94	28	0.04	3.0	0.42	3.8	11	42	2733	37	2.3	20	3.4	INF	INF	5976	0.25	83	0.9	64
2191	583244	5191626	1.0	58	7.1	93	28	0.14	4.8	0.75	8.9	17	83	3296	59	2.8	23	3.3	1.4	0.7	6244	0.25	79	2.0	79
2192	584388	5190452	7.0	34	7.4	62	27	0.28	3.0	0.66	10.7	44	45	17128	388	0.6	26	5.9	1.3	1.6	2088	0.25	159	1.6	97
2193	584801	5189122	20.0	41	7.4	59	27	0.33	3.2	0.69	8.9	41	58	12049	303	0.9	23	8.3	1.6	2.2	2857	0.25	154	1.5	92
2194	585663	5187611	6.0	NS	7.4	71	27	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2195	586412	5189474	17.0	20	7.5	69	27	0.15	3.6	0.54	14.0	59	32	27143	520	0.7	36	7.6	1.1	1.1	1221	0.25	360	1.6	94
2196	584883	5191379	4.0	39	7.5	59	26	0.30	4.8	0.68	11.2	46	57	14024	411	1.1	30	7.8	1.7	1.1	5317	0.25	160	2.0	105
2197	584352	5191986	3.0	55	7.4	64	27	0.17	4.0	0.93	9.8	32	71	10144	138	2.8	31	8.9	2.0	1.4	5918	0.25	154	2.5	91
2198	585739	5193227	5.0	41	7.4	71	27	0.26	2.6	0.77	10.7	39	53	12593	207	0.5	29	8.9	1.4	1.0	2844	0.25	136	1.5	80
2199	586112	5192255	4.0	64	7.5	58	28	0.24	3.9	0.88	5.2	12	59	3731	47	1.5	21	17.3	INF	INF	6599	0.25	69	0.8	78
2200	586661	5192803	10.0	55	7.4	59	28	0.38	3.8	1.08	8.9	33	89	13528	367	1.4	24	9.5	1.3	0.9	5446	0.25	128	1.3	102
2201	587006	5193663	1.0	65	7.3	61	28	0.19	3.2	0.93	7.8	24	65	6189	82	1.1	29	9.0	1.0	0.2	5373	0.25	122	1.3	46
2202	587781	5193326	1.0	62	7.2	51	28	0.15	2.8	0.78	7.5	24	54	4500	76	1.3	31	5.8	INF	INF	4506	0.25	126	1.4	78
2203	587365	5191008	1.0	79	7.1	85	29	0.12	2.6	0.51	2.9	19	66	5293	80	2.9	20	3.9	1.9	0.8	13198	0.25	101	4.0	26
2204	587954	5190971	9.0	24	7.4	71	26	0.11	2.2	0.42	10.4	53	30	17592	271	0.6	30	7.3	1.0	1.0	1772	0.25	284	1.5	81
2205	589058	5191343	3.0	51	7.5	75	27	0.05	2.6	0.58	4.1	24	42	7258	95	1.8	25	6.3	INF	INF	7517	0.25	107	1.8	65
2206	589702	5191644	4.0	17	7.6	71	27	0.04	1.7	0.55	5.7	26	21	7989	165	0.3	18	5.2	0.8	0.8	1507	0.25	211	1.3	46
2207	607586	5207373	32.0	NS	7.6	96	25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2208	607659	5208948	7.0	73	7.5	33	25	0.18	4.3	0.79	4.2	8	78	3757	101	2.1	13	3.2	0.2	0.2	4609	0.25	51	1.0	87
2209	608896	5209946	3.0	63	7.1	46	26	0.14	1.7	0.83	9.6	27	59	4223	92	2.0	31	5.5	0.8	0.6	5331	0.25	116	1.8	79
2210	609361	5210817	14.0	39	7.3	55	26	0.20	3.9	0.98	14.6	62	55	18883	1161	2.5	33	9.0	1.5	2.7	2318	0.25	168	3.1	128
2211	610173	5214505	5.0	45	7.4	31	25	0.10	2.1	0.70	7.3	38	29	7637	273	1.0	22	8.7	0.7	0.2	4018	0.25	100	2.7	67
2212	609057	5215737	12.0	63	7.3	39	26	0.21	6.0	1.02	12.2	31	36	12285	651	1.1	20	33.3	0.2	0.2	7932	0.25	103	1.5	104
2213	609988	5216509	29.0	NS	7.6	81	24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2214	610402	5218000	6.0	61	7.4	26	25	0.16	3.3	0.97	17.6	45	54	20859	706	1.4	22	11.5	0.2	0.2	5487	0.25	162	2.2	97
2215	609456	5217637	12.0	52	6.9	28	25	0.20	3.5	1.32	14.3	47	45	9400	239	1.2	26	16.7	1.0	0.8	4673	0.25	162	3.6	83
2216	608284	5217835	14.0	52	7.2	133	25	0.18	4.4	0.80	10.2	35	83	10513	228	1.7	22	10.3	1.2	0.7	5919	0.25	120	3.4	88
2217	609543	5218419	5.0	61	7.5	43	26	0.12	2.2	0.84	4.1	25	27	4831	81	0.9	19	4.6	0.2	0.2	4714	0.25	85	2.0	63
2218	609212	5219671	4.0	62	7.4	89	26	0.20	5.4	1.28	24.1	35	87	7001	155	3.8	34	19.0	1.6	0.9	9105	0.25	123	8.2	97
2219	610493	5219736	12.0	42	7.4	42	25	0.19	3.8	1.19	20.8	48	43	12579	927	1.6	28	10.4	1.1	1.0	3319	0.25	133	6.5	117
2220	613435	5218899	10.0	NS	7.4	83	25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2221	615567	5225223	6.0	58	7.4	42	26	0.52	6.9	1.53	7.7	27	64	9675	301	2.3	24	35.2	1.0	0.7	10060	0.25	90	1.0	129
2222	615204	5225629	5.0	79	6.9	31	25	0.48	12.0	2.38	7.9	19	78	6369	151	3.0	20	31.1	INF	INF	6648	0.25	94	1.1	299
2223	614050	5225730	1.0	74	6.9	38	26	0.11	5.9	0.81	14.0	36	74	5302	81	2.7	34	3.8	INF	INF	6048	0.25	130	2.9	102
2224	614499	5225960	2.0	73	7.1	39	25	0.08	5.9	0.77	13.0	36	86	5717	80	2.7	36	3.4	INF	INF	6695	0.25	127	3.2	96
2225	615575	5225261	5.0	55	7.1	41	26	0.31	4.0	1.36	7.9	27	64	3003	114	2.3	21	5.7	0.9	0.2	4951	0.25	88	1.2	117
2226	615165	5227000	1.0	64	7.0	43	25	0.17	4.5	0.61	6.5	16	44	2103	35	1.3	20	4.5	0.2	0.2	4736	0.25	92	1.0	62
2227	614171	5227316	5.0	64	7.0	47	26	0.26	6.8	1.16	7.3	27	57	6797	115	1.7	25	20.1	1.4	0.9	8725	0.25	90	1.5	91
2228	613700	5226921	5.0	59	7.0	71	26	0.27	6.1	0.49	7.2	30	64	5392	126	1.6	23	5.1	1.1	0.7	5471	0.25	99	3.3	58
2229	614060	5228463	2.0	62	7.2	52	26	0.38	13.0	0.73	7.2	21	62	2503	43	1.1	23	3.5	0.6	0.2	4815	0.25	94	2.0	44
2230	615074	5228498	11.0	48	7.4	115	26	1.64	104.0	1.50	39.5	41	114	10950	216	2.4	45	53.2	2.6	1.7	8507	1.57	163	2.8	131
2231	614685	5228840	5.0	46	7.8	119	26	0.26	6.8	0.86	10.4	43	119	8990	158	2.1	32	5.0	1.9	1.1	5236	0.25	179	3.5	85
2232	613596	5229318	5.0	70	7.6	40	26	0.36	110.0	0.89	5.7	13	53	4184	95	1.2	21	9.5	0.2	0.2	5837	0.25	49	0.9	93
2233	612134	5232231	2.0	50	7.1	121	26	0.24	3.4	0.79	10.9	37	321	6249	63	2.4	25	7.7	2.2	1.3	6100	0.25	180	4.0	80
2234	608941	5234308	12.0	23	8.2	184	26	0.16	7.7	0.71	29.3	105	98	36471	800	1.3	62	11.4	2.1	3.2	2017	0.69	1135	3.1	131
2235	606370	5234193	1.0	64	8.4	199	27	0.16	12.0	0.64	8.8	25	106	6017	42	4.0	28	6.5	INF	INF	12182	0.25	134	2.2	69
2236	609180	5232977	1.0	52	8.2	206	26	0.08	3.7	0.40	5.1	35	55	7234	84	1.2	19	5.2	2.3	1.2	6088	0.25	183	1.9	51
2237	608711	5233251	10.0	NS	8.4	182	26	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2238	607505	5233087	2.0	80	8.2	78	26	0.06	INF	0.53	2.8	20	35	2065	27	2.0	13	3.3	INF	INF	4213	0.25	85	1.9	57
2239	606828	5232350	1.0	77	7.8	59	26	0.08	1.8	0.62	4.4	22	88	2796	35	3.4	17	2.7	INF	INF	4615	0.25	85	5.0	48
2240	606850	5233239	2.0	64	7.8	111	26	0.11	3.0	0.66	4.7	32	41	5790	65	1.4	17	5.3	INF	INF	5711	0.25	113	2.4	74
2241	606415	5233663	1.0	86	7.7	182	26	0.12	3.6	0.71	2.7	11	79	1413	28	1.7	13	4.8	INF	INF	7358	0.25	43	1.4	78
2242	606252	5233178	4.0	61	7.8	113	26	0.15	3.4	0.65	5.9	30	76	5991	57	1.9	22	8.6	INF	INF	7087	0.25	93	2.1	71
2243	604354	5232571	11.0	NS	7.8	81	26	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2244	605628	5231541	21.0	NS	7.7	77	25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2245	608548	5231528	6.0	56	7.5	57	26	0.11	INF	0.70	5.9	28	36	4385	96	1.0	19	5.2	INF	INF	3733	0.25	74	2.6	48
2246	608241	5231085	1.0	74	7.3	51	26	0.13	4.7	1.11	5.7	25	61	4796	155	0.7	25	13.9	1.6	1.2	7130	0.25	86	9.2	48
2247	608696	5232415	9.0	54	7.2	45	26	0.16	2.3	0.66	5.3	34	51	4723	71	1.6	22	6.2	1.1	0.9	4160	0.25	90	3.8	42
2248	609008	5231423	9.0	63	7.2	90	26	0.33	8.9	0.66	5.5	24	98	4601	178	0.9	22	7.2	0.8	0.2	5756	0.25	72	1.9	54
2249	609979	5231411	4.0	61	7.5	58	26	0.16	3.5	0.75	8.9	29	211	4635	60	2.1	23	10.5	1.0	0.8	5927	0.25	78	3.2	70
2250	610489	5231188	4.0	50	7.4	45	26	0.18	3.0	0.60	30.5	27	560	3423	49	4.3	27	5.3	1.1	0.7	4415	0.25	75	7.3	55
2251	610074	5230415	3.0	59	7.5	76	27	0.47	21.0	2.11	13.6	30	204	18658	338	4.0	34	88.9	2.2	1.7	15625	2.11	70	2.7	145
2252	612593	5228102	3.0	72	8.1	140	26	5.50	397.0	1.60	52.1	49	172	6937	203	2.9	58	36.5	INF	INF	8777	0.25	116	2.2	224
2253	612714	5227831	4.0	NS	8.1	146	27	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2254	613172	5226729	17.0	33	7.9	88	25	0.48	254.0	0.87	16.5	57	58	16468	446	1.2	38	17.9	1.2	2.5	2561	1.66	261	3.4	131
2255	612361	5224865	25.0	NS	7.8	76	26	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2256	608962	5221885	4.0	62	7.7	101	26	0.08	3.4	0.96	10.2	22	28	9534	290	0.7	16	7.4	1.0	0.7	4999	0.25	68	6.7	83
2257	608887	5222311	6.0	52	7.7	77	26	0.08	2.5	0.81	8.8	26	30	7401	250	0.7	17	7.5	0.7	0.7	3812	0.25	69	3.4	84
2258	607531	5222323	3.0	48	7.7	31	26	0.09	2.2	0.77	9.8	31	37	5129	93	0.9	24	7.5	1.0	0.2	3697	0.25	84	3.7	73

Site	Easting	Northing	Lake	LOI	pH	Cond	Temp	Ag	As	Cd	Co	Cr	Cu	Fe	Mn	Mo	Ni	Pb	Pd	Pt	S	Sn	Ti	U	Zn
Number	Method------------------->		Depth	Grav.	YSI	YSI	YSI	ICP-MS	INAA	ICP-MS	ICP-MS	ICP-OES	ICP-OES	ICP-OES	ICP-OES	ICP-MS	ICP-OES	ICP-MS	FAICPMS	FAICPMS	ICP-OES	ICP-MS	ICP-OES	ICP-MS	ICP-OES
	Detection Limit-------->			0.1	0.01	1	0.01	0.02	0.5	0.050	0.05	4	5	5	1	0.10	5	0.05	0.3	0.3	30	0.50	3	0.05	2
	Units-------------------->		m	%		µS/cm	°C	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm
	(NAD 83 Zone 17)																								
2259	607666	5221117	2.0	52	7.2	22	25	0.10	1.6	0.57	4.2	34	23	6222	90	0.5	25	6.1	0.2	0.2	3055	0.25	150	0.8	62
2260	607070	5217981	1.0	74	6.9	54	27	0.06	3.2	0.66	3.7	21	27	4725	45	2.9	22	5.2	INF	INF	6346	0.25	120	2.1	59
2261	606587	5217025	1.0	67	7.0	44	27	0.07	2.3	0.64	8.0	15	27	2275	38	1.2	23	5.3	0.6	0.2	3794	0.25	99	1.7	63
2262	606258	5216179	1.0	68	7.0	37	27	0.09	2.8	0.73	15.6	27	77	4436	97	1.1	27	5.3	1.0	0.7	5059	0.25	93	4.8	76
2263	606490	5214610	4.0	34	7.1	58	26	0.14	5.5	0.87	17.1	54	45	16880	333	0.7	36	22.3	1.5	1.4	4469	0.60	238	2.7	105
2264	607100	5213317	2.0	60	7.3	60	27	0.09	2.2	0.69	12.9	23	41	5576	77	1.4	28	4.3	INF	INF	6741	0.25	111	2.0	70
2265	606605	5213239	10.0	NS	7.4	62	26	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2266	606701	5212222	1.0	42	7.4	65	27	0.12	4.9	1.07	20.3	49	60	12149	549	1.0	31	9.5	1.4	1.0	7704	0.25	134	4.4	112
2267	607037	5211739	4.0	48	7.4	64	26	0.12	5.9	1.59	20.2	45	50	13944	484	0.9	29	18.3	1.1	1.0	7195	0.25	142	4.4	129
2268	607723	5211890	10.0	61	7.7	112	26	0.29	11.0	2.00	6.1	18	75	10046	207	1.9	44	93.2	INF	INF	14222	2.93	95	3.3	122
2269	606511	5210525	12.0	NS	7.9	98	25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2270	604927	5208298	5.0	NS	7.8	97	25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2271	604886	5209914	13.0	NS	7.7	95	24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2272	605486	5210893	2.0	49	6.8	30	26	0.03	1.2	0.45	3.0	7	20	1062	25	1.0	10	3.8	0.2	0.2	3194	0.25	59	1.4	24
2273	605276	5213617	4.0	32	6.6	56	26	0.08	3.3	0.57	16.5	60	43	19808	322	0.9	37	6.5	1.2	1.1	3351	0.25	390	3.0	92
2274	604783	5211720	1.0	73	6.9	46	27	0.03	2.1	0.52	5.3	11	21	1955	35	1.1	16	6.5	0.2	0.2	4163	0.25	71	1.0	38
2275	604154	5210281	7.0	59	7.0	55	27	0.08	2.6	0.79	9.6	43	33	8664	286	1.0	23	3.6	INF	INF	4649	0.25	109	3.4	86
2276	603478	5209879	4.0	66	7.2	72	27	0.06	1.4	0.51	6.0	15	32	2299	56	2.0	24	2.8	0.2	0.2	5995	0.25	73	2.2	69
2277	603763	5209426	1.0	63	7.3	85	27	0.06	2.2	0.98	3.5	12	26	2105	17	1.4	31	11.0	0.8	3.2	7148	0.25	70	1.6	75
2278	603289	5208107	1.0	56	7.4	82	27	0.04	1.4	0.47	2.8	19	26	2571	28	1.9	24	3.8	0.2	0.7	5867	0.25	81	1.8	55
2279	603222	5206310	13.0	NS	7.6	95	25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2280	601635	5206878	9.0	NS	7.8	98	25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2281	600618	5206802	24.0	NS	7.4	56	26	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2282	599464	5207256	2.0	59	7.4	47	27	0.12	2.3	0.76	6.3	15	45	2026	29	1.5	16	4.0	0.9	0.2	5948	0.25	76	1.6	92
2283	598700	5207087	9.0	53	7.3	52	27	0.28	3.5	1.25	8.6	36	60	8954	480	1.2	21	12.6	1.3	0.9	4495	0.25	126	1.2	146
2284	600041	5208176	7.0	NS	7.3	92	25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2285	600699	5209088	1.0	50	7.3	69	27	0.03	1.5	0.89	2.7	23	28	2998	31	0.7	20	3.7	INF	INF	4494	0.25	123	1.6	34
2286	601141	5210313	25.0	41	7.5	57	26	0.17	3.6	0.64	5.9	49	53	8541	152	1.0	27	11.7	1.3	1.2	3828	0.25	137	3.6	74
2287	601422	5211532	20.0	31	7.6	57	25	0.17	3.5	1.24	11.6	64	76	15074	528	1.4	41	8.1	2.3	1.8	2514	0.25	196	5.9	125
2288	602978	5212043	8.0	55	7.7	77	27	0.15	3.5	0.91	8.7	36	57	6934	162	1.2	24	18.5	0.7	0.9	6080	0.25	99	2.6	82
2289	601539	5212520	5.0	57	7.7	49	27	0.15	2.7	0.73	7.6	23	41	7184	155	1.3	23	10.7	0.2	0.7	5299	0.25	109	1.6	66
2290	601133	5212891	2.0	53	7.4	35	27	0.06	1.2	0.42	9.9	19	52	2303	29	0.8	29	4.2	0.9	0.2	4210	0.25	89	2.0	42
2291	600397	5212308	10.0	NS	7.3	56	25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2292	599582	5212481	10.0	61	7.3	32	26	0.36	2.2	0.59	7.2	26	75	13606	152	2.0	24	12.7	INF	INF	6267	0.25	119	1.9	72
2293	600438	5213234	7.0	45	7.0	38	27	0.14	3.1	0.80	11.2	54	40	11097	202	0.9	36	14.6	1.1	1.1	5257	0.25	212	2.7	80
2294	601524	5213761	4.0	59	7.0	44	26	0.08	2.2	0.90	30.9	42	40	7979	174	2.5	37	3.7	INF	INF	5991	0.25	120	8.5	92
2295	602580	5213371	4.0	67	7.1	48	27	0.13	INF	0.98	10.3	32	41	4636	58	1.3	26	13.3	INF	INF	5519	0.25	93	2.4	101
2296	603211	5213685	1.0	59	7.0	50	27	0.05	1.5	0.46	3.4	12	20	1550	45	0.8	24	5.8	0.2	0.2	3645	0.25	61	1.1	35
2297	602138	5214380	20.0	52	7.1	40	26	0.30	8.5	1.64	67.5	66	60	22948	714	1.8	37	32.1	2.2	1.8	5468	0.84	202	7.0	130
2298	600892	5214489	11.0	46	7.2	40	26	0.13	4.0	0.82	43.9	59	42	25754	383	1.2	37	12.4	1.7	1.2	3796	0.25	178	5.1	119
2299	603532	5214858	6.0	52	7.2	28	27	0.12	2.2	0.64	10.8	30	35	7812	112	0.9	22	6.9	0.7	0.7	3690	0.25	152	3.4	56
2300	605310	5213558	5.0	48	7.0	58	27	0.11	5.1	0.79	15.8	48	46	16613	362	1.1	34	9.2	INF	INF	5439	0.25	217	3.0	97
2301	605431	5215453	8.0	27	7.4	64	26	0.10	3.3	0.54	16.5	60	35	17839	303	0.5	35	9.7	1.2	1.3	2510	0.25	292	2.3	86
2302	605576	5217195	5.0	22	7.5	65	27	0.10	3.5	0.52	15.7	57	30	17770	334	0.5	35	8.6	0.8	1.9	2457	0.25	317	2.0	80
2303	604179	5217360	5.0	56	7.5	35	28	0.24	5.8	1.40	20.0	40	45	11403	104	1.0	38	35.9	1.8	1.2	10425	1.12	99	2.5	104
2304	602876	5217981	1.0	63	6.8	25	27	0.07	3.0	1.10	11.7	11	47	1882	65	0.7	22	13.1	1.0	0.9	4942	0.25	58	3.3	50
2305	602749	5216997	7.0	77	6.1	19	27	0.06	2.4	0.90	6.2	19	23	4407	81	0.8	21	3.4	INF	INF	3922	0.25	59	2.2	66
2306	602581	5217378	3.0	67	5.8	25	27	0.06	2.3	0.60	10.7	27	72	2923	40	1.0	29	3.0	1.0	1.1	4029	0.25	107	4.0	28
2307	601396	5218494	8.0	NS	6.2	78	26	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2308	603656	5218471	13.0	51	6.9	33	27	0.09	1.6	0.44	7.4	21	26	4079	77	0.6	16	6.3	0.7	1.6	2981	0.25	67	1.8	31
2309	605376	5218294	9.0	33	6.9	65	27	0.17	5.1	0.84	15.7	54	47	16752	303	0.5	34	17.6	1.3	1.3	4192	0.25	251	2.5	103
2310	606033	5219026	10.0	52	7.1	31	27	0.20	3.5	0.66	5.7	32	41	8996	77	0.7	24	12.5	0.7	0.9	4831	0.25	111	2.0	63
2311	603644	5219205	4.0	47	6.8	25	27	0.08	2.1	0.49	10.8	31	35	4845	72	0.6	24	5.3	0.8	0.8	2810	0.25	95	2.3	45
2312	604244	5221128	12.0	34	6.9	63	27	0.20	4.4	0.69	18.0	58	52	19805	366	0.6	33	9.8	1.2	1.1	2756	0.25	279	2.5	113
2313	605558	5220217	22.0	38	7.2	39	27	0.25	6.5	1.14	21.7	65	50	21881	579	1.3	36	25.8	1.6	1.8	4109	0.67	290	2.8	111
2314	605920	5221249	1.0	67	7.1	41	27	0.09	2.6	0.86	11.1	28	43	3673	94	1.6	39	6.8	1.1	0.9	5118	0.25	114	3.2	66
2315	605180	5222458	4.0	67	7.1	36	27	0.06	1.2	0.58	2.4	12	22	1556	33	1.3	16	1.9	0.2	0.6	3718	0.25	56	2.5	40
2316	603434	5222754	5.0	45	7.0	60	27	0.23	3.1	0.95	9.5	47	43	11244	467	0.7	28	6.1	1.4	1.0	3251	0.25	124	3.7	106
2317	604678	5223806	2.0	52	7.4	76	27	0.12	2.0	0.52	3.3	28	55	3286	27	2.5	21	2.2	1.1	0.8	5508	0.25	95	2.5	57
2318	605328	5223716	1.0	31	7.6	98	28	0.12	3.9	0.73	9.5	53	56	11043	197	0.6	32	4.7	1.3	1.3	2744	0.25	288	2.4	78
2319	606018	5224580	7.0	35	7.8	100	27	0.19	5.6	0.81	31.3	63	95	19123	384	0.6	38	8.5	1.3	2.6	2756	0.25	335	3.2	127
2320	606734	5224216	9.0	44	7.9	37	27	0.25	2.8	1.01	62.0	56	187	12183	268	3.0	35	10.5	1.9	1.6	3590	0.25	192	5.3	119
2321	608068	5223233	7.0	43	7.5	53	27	0.15	3.7	1.55	122.3	47	308	20495	1596	1.7	33	6.9	1.8	0.9	3133	0.25	106	7.6	158
2322	607282	5225050	1.0	43	7.1	27	25	0.08	2.1	0.57	9.6	16	40	2764	59	0.6	19	7.4	0.2	0.2	3382	0.25	72	2.2	43
2323	607782	5225235	3.0	78	5.8	15	26	0.07	1.4	0.62	4.7	13	54	1429	54	0.6	16	4.2	0.2	0.2	3333	0.25	92	1.7	60
2324	608919	5225959	4.0	NS	5.7	44	27	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2325	610069	5226849	25.0	NS	7.1	77	26	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2326	607529	5227178	4.0	65	7.3	40	28	0.17	2.4	1.01	4.1	18	41	4662	88	1.2	18	4.6	0.2	0.2	5572	0.25	60	1.4	111
2327	606913	5227752	3.0	NS	7.3	97	27	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2328	607798	5228057	3.0	64	7.5	139	28	0.04	4.3	0.37	2.3	13	36	1508	26	0.9	12	1.9	1.0	3.1	4875	0.25	51	3.2	18
2329	608729	5228703	20.0	NS	7.8	78	26	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2330	606895	5228618	7.0	50	7.8	118	27	0.16	3.3	0.80	10.1	30	86	5290	95	2.0	21	4.2	1.8	3.5	4526	0.25	95	5.2	76
2331	604542	5229519	6.0	48	8.0	60	27	0.29	1.7	0.96	5.6	43	36	7453	160	0.9	26	6.2	1.4	3.1	3565	0.25	126	1.7	79
2332	603760	5230281	7.0	42	7.7	36	26	0.36	3.6	1.73	8.5	59	75	10694	473	1.8	29	8.3	2.5	3.6	2754	0.25	122	3.1	127
2333	601387	5232262	4.0	57	7.3	38	26	0.56	7.4	1.67	8.5	47	70	8292	511	1.6	23	28.8	2.5	1.7	5436	0.25	113	1.7	111
2334	600920	5233829	2.0	47	7.2	53	27	0.24	2.4	0.57	5.4	27	68	3402	45	0.9	27	4.4	2.2	1.0	4055	0.25	100	1.2	58
2335	599851	5233803	20.0	41	7.6	56	26	0.39	6.6	1.01	9.2	45	69	13513	763	1.8	26	15.0	2.5	1.5	3560	0.25	113	3.6	117
2336	600229	5232822	6.0	55	6.9	68	28	0.08	3.7	0.63	3.8	21	50	6124	55	2.2	29	7.0	2.3	2.7	9691	0.25	97	2.6	69
2337	601170	5231486	11.0	41	7.3	46	25	0.26	3.1	0.84	8.6	55	41	13826	352	0.9	30	9.0	1.3	1.1	3539	0.25	134	2.6	110
2338	602611	5230423	1.0	53	7.3	49	28	0.13	2.1	0.62	2.8	17	43	1869	30	1.0	25	4.8	0.7	0.2	4061	0.25	63	1.3	51
2339	602530	5229869	1.0	58	7.2	54	28	0.17	2.6	0.81	5.4	23	46	2639	65	1.4	26	6.1	0.8	0.2	4618	0.25	79	1.9	74
2340	602276	5229278	9.0	NS	7.4	47	26	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2341	603335	5228942	1.0	51	7.4	53	28	0.13	2.6	0.94	3.3	17	31	2947	37	0.7	21	10.6	1.2	2.9	4663	0.25	87	1.7	60
2342	603539	5227443	1.0	43	7.4	67	29	0.12	2.7	0.60	4.9	21	30	2749	31	1.1	22	7.7	0.9	0.8	4682	0.25	99	1.9	60
2343	604797	5227368	1.0	40	7.6	90	29	0.16	2.0	0.72	5.1	25	35	4254	46	0.6	21	5.2	0.9	0.2	3649	0.25	118	2.0	62
2344	604979	5226574	2.0	62	7.6	74	28	0.28	3.3	1.02	6.4	30	80	3041	65	2.8	30	4.2	INF	INF	5026	0.25	108	4.0	95
2345	605506	5225345	1.0	52	7.5	96	28	0.18	2.4	0.62	4.3	30	86	5486	52	1.2	25	6.6	2.3	1.2	7331	0.25	160	3.1	59
2346	604992	5225447	2.0	63	7.6	87	27	0.20	2.6	0.92	6.3	24	45	4298	75	2.0	22	8.6	1.1	0.6	5569	0.25	92	2.8	88
2347	603524	5225483	5.0	35	7.7	75	27	0.21	2.4	0.74	6.3	30	53	3515	77	2.9	19	5.0	INF	INF	5419	0.25	32	3.1	88
2348	602246	5224235	1.0	53	8.0	132	29	0.22	4.4	0.43	6.0	28	40	6987	36	1.3	23	8.7	1.4	0.2	8042	0.25	104	2.5	64
2349	601688	5222972	2.0	NS	8.1	104	27	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2350	601057	5221964	13.0	57	7.9	78	26	0.26	5.3	0.79	6.7	32	41	7646	178	1.3	23	16.9	INF	INF	6345	0.25	99	2.4	79
2351	601845	5220539	4.0	58	7.6	96	27	0.16	3.4	0.82	3.9	16	51	4714	68	2.3	20	10.0	0.7	0.2	7017	0.25	74	1.4	88
2352	600852	5220572	10.0	45	7.6	78	27	0.28	6.8	0.78	20.4	38	70	12542	512	1.1	20	9.8	1.2	0.9	3832	0.25	129	5.8	115
2353	600231	5219597	8.0	57	7.7	85	27	0.45	4.5	0.33	8.6	37	69	7267	296	1.1	19	9.4	1.4	1.4	4548	0.25	109	3.0	105
2354	600011	5218672	1.0	64	7.9	91	28	0.19	6.0	0.37	5.4	25	58	6460	67	2.9	24	2.5	INF	INF	9127	0.25	79	2.6	64

Site	Easting	Northing	Lake	LOI	pH	Cond	Temp	Ag	As	Cd	Co	Cr	Cu	Fe	Mn	Mo	Ni	Pb	Pd	Pt	S	Sn	Ti	U	Zn
Number	Method------------>		Depth	Grav	YSI	YSI	YSI	ICP-MS	INAA	ICP-MS	ICP-MS	ICP-OES	ICP-OES	ICP-OES	ICP-OES	ICP-MS	ICP-OES	ICP-MS	FAICPMS	FAICPMS	ICP-OES	ICP-MS	ICP-OES	ICP-MS	ICP-OES
	Detection Limit------>			0.1	0.01	1	0.01	0.02	0.5	0.050	0.05	4	5	5	1	0.10	5	0.05	0.3	0.3	30	0.50	3	0.05	2
	Units------------>		m	%		µS/cm	°C	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm
	(NAD 83 Zone 17)																								
2355	599905	5216898	3.0	68	8.4	123	28	0.22	4.9	0.84	5.4	16	70	6296	91	4.3	16	5.6	INF	INF	11566	0.25	105	1.5	92
2356	599402	5216394	3.0	68	8.4	160	28	0.13	5.3	0.46	1.7	9	40	2674	51	2.9	8	2.8	1.2	0.2	9706	0.25	40	1.7	52
2357	598744	5214949	17.0	19	8.1	105	26	0.16	3.4	0.55	10.3	52	41	17195	428	0.8	31	5.6	1.3	2.4	1373	0.25	299	2.2	90
2358	598753	5213183	12.0	26	7.8	47	26	0.21	5.5	0.95	16.0	66	52	21174	932	2.9	47	8.0	1.8	2.7	1936	0.25	333	4.1	136
2359	598893	5211624	5.0	48	7.1	31	25	0.12	1.7	0.46	4.1	19	27	5591	93	0.9	16	6.2	0.8	3.1	3625	0.25	94	1.1	45
2360	598341	5209264	7.0	41	6.7	93	26	0.13	6.2	0.39	7.4	52	77	13216	178	1.8	37	7.2	2.0	1.1	6727	0.25	276	2.5	81
2361	597461	5207099	4.0	NS	8.0	112	28	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2362	596964	5206388	2.0	74	8.0	5	28	0.12	1.8	0.59	6.1	22	37	3359	50	1.4	19	2.6	INF	INF	4902	0.25	106	1.2	78
2363	598605	5206070	1.0	57	7.4	32	28	0.10	2.2	0.42	3.3	8	24	1996	35	0.8	20	7.7	0.2	0.2	3444	0.25	61	0.5	32
2364	577969	5184295	8.0	22	6.4	69	26	0.11	3.9	0.40	11.1	55	39	17706	305	0.7	41	12.8	1.4	2.6	3355	0.25	455	2.6	85
2365	577147	5185446	1.0	53	6.5	38	28	0.05	1.7	0.25	1.0	2	21	906	24	1.3	18	3.0	0.2	0.2	3545	0.25	35	0.2	24
2366	576084	5181967	6.0	57	6.5	55	28	0.30	8.9	0.84	16.0	35	64	13771	241	2.7	27	6.8	1.3	0.7	7752	0.25	96	8.9	99
2367	575358	5182571	9.0	44	6.9	33	27	0.29	4.1	1.30	12.8	32	41	10581	238	3.6	32	70.0	1.4	0.8	5207	0.76	138	18.9	110
2368	574878	5181521	1.0	43	6.7	36	28	0.22	4.8	0.82	8.4	23	49	4628	68	2.5	30	14.4	1.1	0.2	6924	0.25	100	7.9	61
2369	574149	5181428	6.0	41	6.8	62	28	0.16	7.8	1.48	21.0	41	41	18089	353	1.2	43	23.1	1.5	1.0	4783	0.25	234	4.1	124
2370	573467	5183067	3.0	63	7.0	29	27	0.17	3.2	1.21	10.7	21	41	3643	53	3.1	35	28.7	0.2	0.2	4849	0.25	109	16.5	100
2371	569831	5184148	1.0	57	6.5	26	28	0.10	1.4	0.41	3.5	19	36	1967	39	0.6	24	5.0	1.0	0.8	4603	0.25	107	0.5	24
2372	568640	5184415	30.0	NS	6.8	54	26	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2373	568061	5184232	16.0	NS	7.0	55	27	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2374	567796	5184310	2.0	60	7.0	40	28	0.08	2.7	0.77	3.9	12	39	1857	36	2.5	28	3.4	1.0	0.2	5171	0.25	76	0.8	88
2375	565397	5183391	15.0	32	7.0	59	25	0.15	6.8	0.85	8.4	47	55	15184	176	1.0	39	24.6	2.0	3.0	3864	0.80	160	1.7	101
2376	564417	5182915	10.0	34	7.1	38	26	0.28	13.0	1.86	21.9	44	85	37451	755	2.6	61	40.7	3.5	4.1	5760	1.49	148	1.3	157
2377	563254	5182815	5.0	52	7.0	28	27	0.12	2.8	0.68	7.5	18	49	4993	95	1.1	26	8.2	1.2	1.1	4460	0.25	84	0.5	54
2378	561813	5182475	15.0	33	6.9	37	26	0.16	2.9	0.85	18.2	40	59	19357	669	1.4	33	8.0	3.1	3.8	2614	0.25	166	1.0	104
2379	560246	5182803	2.0	50	6.9	42	27	0.06	2.0	0.49	3.8	12	50	1658	31	1.9	21	1.5	1.7	0.8	5045	0.25	51	0.9	52
2380	557897	5182116	2.0	47	6.8	45	28	0.13	3.3	0.97	8.2	21	51	8653	97	1.3	40	16.9	2.9	4.4	7945	0.25	106	1.2	51
2381	556416	5182107	6.0	60	6.9	36	28	0.11	2.7	0.83	6.0	15	38	3347	79	1.7	32	7.5	0.7	0.7	7179	0.25	70	0.6	92
2382	553916	5181292	17.0	NS	7.0	59	26	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2383	553794	5180516	4.0	50	7.2	60	27	0.14	6.3	1.39	18.4	43	89	20333	357	3.1	41	10.6	4.3	1.8	4963	0.25	110	2.5	180
2384	553080	5179546	1.0	62	7.1	42	27	0.07	2.2	0.40	3.6	15	39	1965	30	1.6	21	1.8	2.6	2.9	5303	0.25	71	0.8	24
2385	551886	5178684	2.0	57	6.9	32	28	0.11	1.9	0.48	2.5	15	38	2288	29	1.3	21	3.3	1.6	0.9	4189	0.25	60	0.6	25
2386	552149	5177785	2.0	55	6.7	38	28	0.14	2.0	0.57	5.6	18	53	2019	34	2.0	24	2.7	1.5	0.9	5049	0.25	68	1.5	50
2387	552234	5180184	3.0	50	6.8	38	28	0.18	2.8	0.65	6.9	25	45	5186	78	1.8	28	6.6	3.0	3.5	5050	0.25	90	0.6	63
2388	552492	5180858	6.0	60	6.9	30	28	0.15	2.4	0.85	6.8	27	47	4240	104	1.2	22	3.5	3.5	2.5	5288	0.25	90	0.6	86
2389	549771	5181439	1.0	23	7.1	54	28	0.12	2.6	0.36	4.7	35	37	9389	126	1.2	25	4.2	1.6	0.6	3163	0.25	191	1.7	29
2390	546041	5179240	10.0	36	7.6	66	27	0.20	7.6	1.23	9.4	30	71	10337	193	3.8	66	24.2	2.8	6.3	7328	0.76	197	1.8	90
2391	545424	5179457	2.0	44	7.6	68	28	0.09	3.0	0.44	7.8	20	40	6064	156	3.1	29	3.6	0.9	0.2	6165	0.25	124	1.5	57
2392	545251	5178825	7.0	60	7.6	66	27	0.07	2.6	0.33	4.0	6	34	1078	27	2.9	26	2.1	0.6	0.2	4950	0.25	54	1.0	39
2393	544760	5178510	2.0	37	7.5	53	28	0.15	6.1	0.72	8.3	29	60	10194	215	3.2	40	9.6	2.1	1.1	5529	0.25	176	2.2	81
2394	544215	5177971	NM	NS	7.3	46	27	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2395	542036	5177855	11.0	NS	7.3	39	26	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2396	539063	5179774	13.0	43	7.1	33	27	0.30	3.6	0.61	16.9	40	88	16756	351	3.7	33	9.4	1.9	1.6	4111	0.25	214	3.1	78
2397	538358	5180513	1.0	57	6.7	35	28	0.10	4.0	0.68	15.8	34	85	25388	161	3.5	42	4.6	INF	INF	5437	0.25	191	3.7	99
2398	538529	5181881	5.0	NS	6.3	33	26	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2399	538514	5183466	5.0	55	5.2	27	26	0.17	4.4	0.77	9.1	22	41	10022	159	1.9	30	12.3	0.9	0.9	4368	0.25	107	1.9	57
2400	538631	5185444	21.0	NS	5.2	32	24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2401	538240	5186645	6.0	NS	5.2	33	25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2402	538577	5187879	10.0	57	5.5	33	27	0.36	12.0	1.39	20.3	30	90	14903	256	5.4	81	32.6	2.8	3.3	11959	1.06	107	1.6	131
2403	538552	5188999	5.0	21	5.9	35	27	0.08	3.8	0.84	24.4	38	34	21809	435	2.9	38	5.2	1.3	0.9	13424	0.25	252	2.4	107
2404	539078	5188189	8.0	24	6.1	35	27	0.07	4.1	0.77	18.3	41	37	19265	1197	2.5	34	6.6	1.1	1.0	2813	0.25	195	2.4	108
2405	539561	5186963	18.0	30	6.3	35	27	0.21	11.0	1.04	33.7	52	60	64960	3639	6.5	48	11.0	2.0	1.3	2337	0.25	232	3.2	156
2406	540471	5185699	6.0	NS	6.4	35	27	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2407	539149	5185159	5.0	56	6.0	28	27	0.28	11.0	1.35	17.3	30	80	10904	178	3.4	76	33.5	3.0	2.4	7710	0.96	124	1.8	97
2408	540583	5184065	8.0	62	6.3	42	27	0.25	14.0	1.43	12.4	16	78	9176	191	6.7	74	46.8	3.5	2.9	11768	0.92	64	2.4	136
2409	539224	5183955	9.0	53	6.3	24	27	0.10	3.0	0.51	6.5	17	28	5790	147	1.3	18	8.9	0.7	2.1	3634	0.25	96	1.0	42
2410	540057	5182394	14.0	24	5.5	32	25	0.08	7.1	0.35	9.4	32	50	10567	334	1.5	40	11.1	2.1	1.9	2933	0.25	185	2.1	60
2411	540473	5182088	12.0	42	5.2	33	25	0.21	11.0	1.36	10.4	30	119	9169	172	1.9	101	33.8	INF	INF	6142	0.99	104	3.0	109
2412	540787	5182379	3.0	38	5.2	34	26	0.08	3.2	0.89	11.3	39	97	10130	99	2.1	44	5.5	2.0	1.9	4122	0.25	237	4.1	109
2413	542289	5183826	4.0	NS	5.7	37	26	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2414	542995	5182985	19.0	NS	6.2	38	25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2415	543492	5182103	21.0	NS	6.4	38	26	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2416	542675	5180298	11.0	NS	6.6	38	26	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2417	543984	5180360	1.0	68	6.5	28	27	0.12	3.4	0.65	4.1	16	62	3470	52	0.7	30	6.8	1.6	1.4	4950	0.25	81	2.2	17
2418	543918	5180862	9.0	50	6.3	27	27	0.10	3.2	0.80	9.1	22	48	3765	95	1.3	29	6.2	0.9	0.8	4712	0.25	82	0.8	89
2419	546466	5180904	6.0	9	6.5	72	27	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD
2420	549829	5181389	1.0	NS	7.3	62	27	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2421	554791	5183138	1.0	66	7.2	52	27	0.04	1.9	0.49	3.2	10	47	2067	35	0.8	18	2.5	2.6	1.3	5983	0.25	45	0.5	29
2422	557837	5183204	1.0	32	7.0	50	28	0.08	1.5	0.56	3.1	12	51	2579	29	0.7	20	6.4	1.6	0.9	3344	0.25	80	1.9	34
2423	561494	5183848	7.0	57	6.9	36	27	0.11	2.4	0.69	4.1	12	47	2493	73	1.0	20	8.0	1.4	0.8	4854	0.25	70	0.5	68
2424	562650	5183973	5.0	72	6.5	26	27	0.08	1.5	0.71	1.7	5	50	2702	82	1.1	13	1.9	0.2	0.2	4495	0.25	50	0.3	62
2425	565639	5183512	4.0	NS	6.3	56	25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2426	566791	5185186	23.0	18	6.8	61	25	0.12	5.7	1.19	10.1	40	44	13384	499	1.9	35	7.4	1.6	1.3	1628	0.25	194	1.7	125
2427	568681	5185952	9.0	72	6.7	27	27	0.38	6.0	1.00	7.3	20	62	5454	114	1.2	48	16.0	INF	INF	7970	0.50	58	0.7	153
2428	569775	5185494	11.0	41	6.5	45	27	0.36	20.0	1.61	33.7	47	57	27522	827	1.6	52	32.9	2.1	2.3	8107	0.86	171	1.1	163
2429	571179	5184942	2.0	48	6.8	34	27	0.25	12.0	1.46	23.1	42	71	22074	202	1.3	68	36.8	INF	INF	12264	1.07	91	1.5	132
2430	573473	5183897	1.0	43	6.7	24	27	0.18	3.2	0.42	4.0	29	44	4920	74	0.6	27	24.5	0.9	0.2	4226	0.25	137	14.6	32
2431	574639	5183914	2.0	53	5.4	28	27	0.12	2.2	0.51	3.8	11	25	2044	56	1.4	23	12.1	0.2	0.2	4323	0.25	78	14.5	38
2432	564903	5185201	4.0	39	6.9	29	25	0.16	2.5	0.42	9.7	30	44	5511	86	0.7	31	3.9	0.6	0.2	3369	0.25	113	1.0	68
2433	564380	5185205	8.0	29	6.7	28	25	0.16	2.5	0.54	22.7	48	51	14901	266	0.9	46	9.6	1.1	0.9	3053	0.25	249	1.2	100
2434	563146	5185236	14.0	51	6.7	36	25	0.22	4.5	0.81	10.4	37	75	14820	361	1.5	30	12.1	3.1	2.0	5167	0.25	102	1.1	102
2435	561804	5185404	11.0	53	6.8	36	25	0.20	3.5	0.76	5.6	32	66	7626	195	1.2	26	10.3	2.7	1.8	4738	0.25	91	1.0	75
2436	560378	5186047	13.0	51	6.9	38	25	0.18	4.3	0.84	7.2	35	61	9236	276	1.1	27	12.6	2.6	1.2	5072	0.25	97	1.1	84
2437	557803	5183915	3.0	36	6.8	48	25	0.36	52.7	0.72	28.9	45	165	23476	33	10.4	38	13.6	8.1	2.8	23496	0.25	131	4.0	44
2438	555451	5184156	2.0	NS	6.9	30	25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2439	554272	5183518	3.0	71	6.7	39	25	0.11	4.8	0.80	8.2	29	107	5566	95	1.9	34	3.4	INF	INF	6646	1.00	91	0.8	82
2440	553648	5182990	4.0	52	6.8	46	26	0.19	3.9	0.80	5.9	18	49	5502	181	1.9	20	6.8	1.4	0.9	4647	0.25	71	1.7	66
2441	553371	5183065	3.0	53	6.7	44	26	0.12	3.7	0.48	11.6	19	51	5441	213	2.9	24	9.1	3.2	1.6	7384	0.25	59	1.3	65
2442	552265	5183543	25.0	NS	6.9	61	26	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2443	552582	5185038	17.0	NS	7.1	59	25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2444	548975	5185803	3.0	49	7.1	45	25	0.18	3.9	0.78	4.7	16	49	7704	102	1.2	37	12.1	1.4	0.8	9033	0.25	69	0.9	71
2445	548745	5185159	4.0	68	6.8	43	25	0.10	3.9	0.70	2.4	2	45	1422	43	2.0	32	12.6	2.5	0.8	6984	0.82	25	0.5	60
2446	547397	5183382	2.0	39	6.7	26	25	0.07	3.6	0.39	3.6	22	19	6089	93	0.6	27	9.3	0.9	0.9	2953	0.25	208	0.4	63
2447	545349	5181655	4.0	53	6.5	25	25	0.10	3.1	0.48	5.8	14	45	2261	48	1.4	33	4.6	0.9	0.6	5210	0.25	62	0.9	54
2448	545201	5182678	3.0	58	6.3	27	26	0.15	2.6	0.62	4.2	5	41	2911	49	1.5	29	8.3	0.7	0.2	5636	0.25	69	0.8	72
2449	545937	5183956	4.0	10	6.3	57	25	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD
2450	545600	5185411	3.0	49	6.7	41	25	0.04	2.4	0.58	6.1	22	38	5197	2	1.1	30	3.8	1.6	0.8	4181	0.25	97	1.1	44

Site	Easting	Northing	Lake	LOI	pH	Cond	Temp	Ag	As	Cd	Co	Cr	Cu	Fe	Mn	Mo	Ni	Pb	Pd	Pt	S	Sn	Ti	U	Zn
Number	Method----------------->		Depth	Grav.	YSI	YSI	YSI	ICP-MS	INAA	ICP-MS	ICP-MS	ICP-OES	ICP-OES	ICP-OES	ICP-OES	ICP-MS	ICP-OES	ICP-MS	FAICPMS	FAICPMS	ICP-OES	ICP-MS	ICP-OES	ICP-MS	ICP-OES
	Detection Limit--------->			0.1	0.01	1	0.01	0.02	0.5	0.050	0.05	4	5	5	1	0.10	5	0.05	0.3	0.3	30	0.50	3	0.05	2
	Units----------------->		m	%		µS/cm	°C	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm
	(NAD 83 Zone 17)																								
2451	545156	5185874	5.0	65	6.5	33	26	0.11	1.9	0.56	3.5	15	38	5542	95	1.3	18	3.0	0.7	1.0	5966	0.25	62	0.8	74
2452	543162	5185801	7.0	19	6.3	29	26	0.08	2.9	0.28	16.2	30	27	11075	178	1.5	23	3.0	0.7	0.7	2849	0.25	198	1.0	66
2453	542089	5187291	11.0	35	6.2	29	26	0.13	2.5	0.43	6.9	26	31	7785	112	0.7	19	7.2	0.7	1.3	2625	0.25	136	0.9	46
2454	541854	5187788	7.0	42	6.1	28	25	0.10	1.7	0.59	8.4	26	32	7328	117	0.8	21	5.4	1.8	0.2	3272	0.25	136	1.0	56
2455	540729	5188818	7.0	57	4.8	40	26	0.19	2.5	0.64	6.5	23	41	7652	81	1.6	26	4.3	0.2	0.2	6866	0.25	111	1.0	83
2456	541520	5188935	8.0	42	5.0	29	26	0.08	1.4	0.56	6.5	24	34	6274	115	1.0	27	4.1	0.8	1.5	4626	0.25	101	0.8	73
2457	543520	5188208	1.0	61	5.7	43	26	0.07	3.7	0.59	9.4	25	54	7975	92	1.4	30	3.8	INF	INF	6145	0.25	132	1.3	62
2458	544492	5189214	4.0	47	5.9	41	25	0.08	2.2	0.52	3.1	10	40	3015	54	1.6	17	3.6	0.2	0.2	4853	0.25	54	0.9	47
2459	543092	5189965	1.0	63	6.1	38	24	0.03	1.5	0.36	2.8	9	33	2037	38	1.1	18	2.0	3.2	1.8	4737	0.25	55	0.7	45
2460	543165	5190319	1.0	52	6.2	34	25	0.05	2.6	0.80	6.6	18	35	6092	83	1.1	32	9.1	0.7	0.2	5159	0.25	107	1.0	34
2461	542605	5190746	4.0	48	6.1	31	25	0.08	3.1	0.74	7.3	18	41	7212	95	1.6	29	10.2	0.7	0.2	6721	0.25	76	1.2	69
2462	543440	5191410	3.0	59	6.0	29	25	0.12	1.4	0.70	7.7	18	68	2555	43	1.8	37	3.2	0.7	0.2	5743	0.25	88	1.1	88
2463	541891	5191109	11.0	43	6.0	33	26	0.16	5.1	0.71	9.4	19	40	9885	200	2.0	29	20.8	2.8	0.2	5311	0.56	100	1.2	63
2464	540889	5191122	17.0	37	6.2	33	26	0.19	7.3	1.09	39.8	49	67	40172	903	4.0	41	9.3	1.8	1.2	2848	0.25	149	1.7	149
2465	539724	5191222	1.0	48	5.8	34	26	0.06	2.3	0.36	3.2	12	34	2526	43	0.8	24	9.4	1.1	0.2	3684	0.25	100	1.0	18
2466	539282	5192168	14.0	31	5.8	35	25	0.13	3.8	0.47	18.7	31	29	24657	446	2.0	22	7.0	0.9	0.2	2213	0.25	184	1.1	73
2467	538632	5191975	3.0	36	5.9	30	25	0.07	2.8	0.58	13.7	33	54	11355	170	2.6	32	4.2	1.7	2.1	2897	0.25	157	3.4	96
2468	538860	5192780	7.0	41	5.7	32	26	0.21	4.9	0.81	6.6	27	41	11251	121	1.2	38	15.5	1.5	2.3	5601	0.51	136	1.0	66
2469	538961	5193127	1.0	52	5.7	33	25	0.08	3.8	0.67	11.4	21	40	7047	109	2.3	35	5.3	1.2	0.8	4193	0.25	108	1.7	64
2470	539903	5192775	5.0	36	5.9	35	25	0.12	3.2	0.51	6.3	27	30	8354	155	1.0	21	5.6	0.9	3.4	2836	0.25	141	1.2	49
2471	540418	5193726	5.0	61	6.1	41	26	0.16	7.1	0.96	6.7	16	74	11055	154	1.6	41	26.3	INF	INF	12162	0.61	58	0.6	85
2472	540726	5194978	1.0	40	6.3	46	25	0.10	3.0	0.65	4.7	14	37	2519	63	1.1	25	8.6	1.2	1.6	4173	0.25	59	1.7	42
2473	538250	5194216	5.0	63	6.2	28	26	0.14	1.7	0.55	2.7	8	28	2854	68	2.2	14	2.3	0.2	0.2	4225	0.25	61	1.2	41
2474	538474	5195020	2.0	49	5.5	29	26	0.11	2.6	0.67	7.1	23	28	6324	90	1.2	22	4.0	0.6	1.4	3307	0.25	67	1.3	64
2475	540583	5195636	6.0	50	6.0	47	26	0.15	5.4	0.77	7.5	22	59	6250	272	3.8	24	6.3	1.5	1.9	5706	0.25	80	3.0	59
2476	540078	5196159	6.0	55	6.4	49	26	0.17	6.8	0.88	6.1	20	60	6225	184	4.2	32	13.2	INF	INF	7935	0.25	71	2.3	65
2477	538403	5197580	3.0	39	6.6	39	26	0.10	4.7	0.83	8.6	27	27	16067	186	2.8	22	4.9	0.9	1.8	3683	0.25	122	1.5	88
2478	539161	5197195	11.0	27	6.7	46	26	0.17	5.7	0.74	7.4	29	50	10308	237	2.4	25	12.3	1.2	0.9	3793	0.25	128	1.9	66
2479	540248	5197241	6.0	54	6.7	45	26	0.20	5.5	1.18	7.4	17	66	3504	180	3.5	19	5.4	1.2	2.3	4836	0.25	77	2.0	75
2480	540650	5197503	5.0	41	6.6	37	26	0.14	2.8	0.50	4.1	17	35	3795	110	1.2	17	5.7	0.7	1.8	2749	0.25	80	0.8	47
2481	540845	5197031	1.0	54	4.5	40	24	0.06	2.6	0.45	1.3	4	26	1373	48	2.4	18	3.4	0.9	1.7	3984	0.25	33	0.4	25
2482	541994	5197844	1.0	22	5.1	32	26	0.08	2.1	0.47	1.6	10	22	1551	50	0.6	23	9.1	1.1	1.4	2530	0.25	66	0.5	42
2483	541703	5197475	1.0	22	5.4	36	26	0.11	2.8	0.41	3.9	20	18	4163	112	0.5	20	6.5	0.5	0.7	1932	0.25	104	0.8	29
2484	540143	5197863	1.0	52	5.6	39	26	0.12	4.9	0.66	6.8	17	52	3806	60	1.8	36	6.0	3.3	1.1	5745	0.25	85	1.6	60
2485	539133	5198686	3.0	35	6.1	47	26	0.20	4.6	0.69	6.4	17	47	3949	93	1.8	23	5.0	0.9	0.2	3528	0.25	62	1.8	52
2486	539742	5199297	4.0	67	5.9	42	26	0.15	3.9	1.00	2.6	4	61	1415	35	3.0	28	6.7	3.0	1.7	6603	0.25	34	0.9	95
2487	539672	5200484	6.0	51	5.9	59	26	0.19	7.2	1.10	11.6	17	86	5447	117	2.5	20	4.1	1.7	0.2	7569	0.25	50	2.4	98
2489	543003	5204401	9.0	56	6.3	46	25	0.11	5.2	0.60	4.7	23	32	6829	165	3.1	18	5.8	1.2	1.7	7365	0.25	82	1.4	56
2490	542741	5204263	7.0	NS	4.7	28	25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2491	543726	5204249	2.0	53	5.5	39	25	0.10	1.1	0.49	3.7	13	20	1586	31	0.9	15	2.6	2.1	1.0	4170	0.25	45	0.5	32
2492	544653	5202706	6.0	NS	4.5	22	25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2493	543917	5200894	1.0	NS	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2494	546680	5199552	1.0	41	5.1	29	25	0.17	1.8	0.49	2.4	16	46	3177	25	0.8	21	5.7	0.7	1.0	3467	0.25	78	1.0	16
2495	546719	5196806	10.0	65	6.0	32	26	0.18	6.9	1.04	9.3	21	54	16764	488	1.7	17	2.6	INF	INF	8719	0.25	54	0.7	117
2496	547736	5196993	11.0	38	6.2	36	26	0.21	7.0	0.91	10.0	28	46	13373	288	1.2	37	21.0	2.1	2.7	5037	0.70	156	0.9	78
2497	547924	5195573	5.0	42	6.3	34	26	0.16	2.7	0.71	5.7	13	55	2883	69	0.9	18	3.0	1.5	0.9	3900	0.25	72	0.6	60
2498	547327	5195633	11.0	62	6.2	29	25	0.13	5.2	1.17	21.8	21	59	18920	523	1.8	23	3.9	2.4	1.0	10144	0.25	64	0.7	102
2499	546166	5192430	10.0	6	7.0	107	26	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD
2500	547426	5191538	2.0	46	6.8	37	23	0.08	3.5	0.43	1.7	2	37	1084	15	0.8	15	3.7	0.7	0.7	4339	0.25	27	0.4	30
2501	547597	5190903	2.0	40	6.2	35	25	0.06	1.7	0.47	2.9	10	32	2030	35	0.6	24	5.8	1.9	1.8	3270	0.25	70	0.5	18
2502	547657	5190172	3.0	59	6.3	41	26	0.09	2.0	0.83	3.4	11	43	4435	52	1.0	17	3.9	2.8	2.7	5428	0.25	53	0.5	90
2503	547541	5189334	4.0	58	6.4	22	26	0.07	2.5	0.59	4.3	15	39	3641	59	0.9	21	3.0	1.5	1.0	4648	0.25	72	0.4	45
2504	549128	5187864	1.0	48	6.2	45	26	0.11	2.1	0.51	2.9	14	69	2031	29	1.5	25	5.0	1.4	2.0	5650	0.25	72	3.0	31
2505	552189	5187343	18.0	37	6.7	62	25	0.20	8.6	0.78	7.6	42	68	11780	193	1.4	33	17.7	3.9	2.6	4802	0.25	134	2.7	78
2506	553782	5186056	7.0	21	6.9	56	26	0.10	7.9	0.46	8.1	34	33	13045	277	1.8	23	4.0	1.3	1.2	1847	0.25	170	1.1	68
2507	555341	5185034	8.0	26	7.1	58	26	0.25	16.0	1.32	18.8	49	141	11626	634	5.6	41	7.1	5.0	2.3	3739	0.25	219	5.6	119
2508	556810	5185230	1.0	40	6.9	41	27	0.09	2.1	0.59	3.7	18	39	2637	56	0.6	22	5.6	1.4	1.5	4234	0.25	93	1.3	36
2509	559438	5186264	1.0	47	6.8	60	26	0.09	3.4	0.54	2.9	11	44	2478	26	1.8	33	11.3	5.0	1.8	6081	0.25	58	2.4	38
2510	560378	5186758	3.0	62	7.0	34	26	0.12	3.4	0.77	10.3	21	53	4857	68	1.3	33	8.9	2.9	2.7	6090	0.25	67	0.6	91
2511	562339	5186568	4.0	56	6.9	34	26	0.18	2.3	0.58	2.7	11	52	5333	103	1.3	16	3.6	0.7	1.4	4423	0.25	52	0.5	60
2512	563910	5186427	7.0	57	6.8	30	26	0.13	4.0	0.72	9.0	25	55	7253	124	1.5	37	21.3	INF	INF	7076	0.52	93	0.9	79
2513	564437	5185987	1.0	68	6.7	27	26	0.10	2.0	0.78	8.9	15	41	2957	50	1.6	36	4.1	1.7	1.4	4586	0.25	84	0.9	91
2514	565417	5187547	13.0	30	6.7	60	24	0.13	6.4	0.81	10.2	42	52	19684	495	2.6	32	8.3	1.9	2.1	2375	0.25	122	2.1	109
2515	568357	5186455	8.0	NS	7.1	74	25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2516	575529	5186713	7.0	34	7.6	36	27	0.20	3.5	0.58	15.3	45	44	14101	432	4.5	31	16.3	1.1	1.4	3812	0.25	154	42.8	95
2517	575731	5185663	3.0	56	7.2	37	27	0.14	3.9	0.76	3.8	12	32	4563	92	3.6	20	15.0	0.8	1.5	6697	0.25	52	20.5	81
2518	574991	5184808	1.0	49	7.0	30	28	0.14	2.1	0.52	3.5	14	25	3497	47	2.2	21	16.2	0.8	0.9	4423	0.25	70	20.7	22
2519	572777	5187426	1.0	64	6.7	39	28	0.12	3.1	0.60	6.9	19	68	2481	38	2.0	36	7.2	INF	INF	5896	0.25	83	6.5	47
2520	572349	5186258	5.0	48	6.8	31	26	0.21	12.0	1.76	28.5	51	78	29901	964	5.0	69	30.0	2.2	1.8	6786	0.89	192	19.1	223
2521	571490	5185800	7.0	69	6.4	22	27	0.15	2.5	0.66	5.0	11	37	7865	107	0.9	15	4.4	1.4	1.6	5711	0.25	47	0.6	99
2522	571034	5187409	3.0	NS	6.3	44	26	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2523	570159	5187881	4.0	48	6.6	45	27	0.17	47.0	0.26	10.0	32	41	242387	1651	1.9	31	5.5	1.9	2.1	4424	0.25	51	0.8	79
2524	569540	5187681	6.0	60	6.8	35	27	0.14	4.6	1.04	5.1	24	40	5815	198	2.2	21	5.5	1.1	2.0	5234	0.25	80	0.9	109
2525	568916	5187159	6.0	NS	6.8	27	26	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2526	562828	5188799	4.0	62	6.8	34	27	0.12	2.6	0.71	10.8	25	77	7004	132	1.7	33	2.8	INF	INF	4773	0.25	85	1.2	103
2527	562855	5187093	9.0	53	6.8	39	27	0.27	11.0	2.01	14.2	15	74	11638	363	1.1	68	59.4	3.6	3.0	9188	1.60	58	0.7	87
2528	561083	5189814	5.0	58	6.6	29	27	0.18	2.4	0.69	3.5	13	53	4787	80	1.3	20	4.8	0.8	1.4	4476	0.25	68	0.7	61
2529	561126	5191259	2.0	52	6.4	38	28	0.03	2.3	0.41	2.3	6	38	1185	22	1.5	18	2.2	0.8	0.5	4434	0.25	42	0.7	43
2530	560107	5190842	4.0	65	6.5	34	28	0.05	1.4	0.58	2.3	6	48	1657	55	1.6	13	2.5	3.9	1.9	4843	0.25	44	0.5	53
2531	559560	5190450	2.0	50	6.6	32	27	0.06	2.0	0.39	3.2	14	39	2334	34	0.9	27	7.6	1.8	1.3	4534	0.25	56	0.6	25
2532	559271	5191093	16.0	15	6.9	42	23	0.06	8.0	0.33	13.1	57	37	25470	461	1.4	44	7.4	2.6	2.0	1370	0.25	449	1.5	76
2533	558769	5191278	2.0	42	6.9	37	26	0.08	2.2	0.49	3.0	11	53	2214	34	0.7	24	7.3	1.4	1.2	3946	0.25	48	0.8	22
2534	559550	5189970	2.0	54	6.8	32	27	0.07	3.7	0.56	2.5	15	39	2851	44	0.7	24	10.8	2.5	1.7	4699	0.25	53	0.6	25
2535	559701	5188916	1.0	55	6.7	58	28	0.01	2.0	0.40	2.0	5	31	1544	36	1.4	16	2.7	2.8	2.0	4582	0.25	31	0.4	34
2536	558841	5188547	1.0	62	7.0	37	28	0.06	2.7	0.65	3.2	14	41	2687	59	0.6	32	10.6	3.7	3.0	4646	0.25	69	0.3	31
2537	558240	5188045	8.0	51	6.9	39	26	0.15	5.5	0.88	10.7	35	64	18265	451	1.5	31	17.3	4.2	4.4	6187	0.25	82	1.1	85
2538	557212	5188882	1.0	44	6.9	34	28	0.13	4.7	0.97	8.8	16	61	4912	62	0.8	58	26.8	3.0	2.5	5883	0.76	78	0.9	54
2539	555979	5188182	2.0	40	6.8	46	27	0.09	4.4	0.67	5.5	14	47	4255	206	1.6	27	16.6	2.9	1.8	5852	0.25	36	0.9	62
2540	555911	5187835	13.0	58	6.9	35	27	0.31	6.0	1.07	19.5	39	79	23737	720	2.3	31	19.1	4.0	3.2	10450	0.25	73	0.8	108
2541	556222	5189185	5.0	49	6.8	32	27	0.08	1.6	0.61	6.5	20	42	3249	101	0.7	20	3.8	0.8	1.5	4004	0.25	58	0.6	60
2542	556023	5189302	5.0	59	6.5	30	28	0.18	1.8	0.87	4.6	18	57	6374	103	1.3	19	4.5	0.9	1.7	5099	0.25	67	0.8	92
2543	556644	5190282	3.0	51	6.4	25	27	0.11	1.5	0.51	4.6	14	50	2455	37	1.2	26	2.7	0.7	1.0	3875	0.25	70	0.8	50
2544	556579	5191292	6.0	56	6.4	36	27	0.18	4.3	1.15	5.8	17	66	5663	57	1.5	32	24.8	1.6	2.0	8181	0.63	62	1.2	87
2545	555930	5191583	2.0	53	6.5	33	27	0.24	8.1	1.61	15.9	27	84	10931	150	1.8	78	49.4	3.1	3.2	8965	1.20	84	0.9	139
2546	555068	5191917	7.0	48	6.6	46	27	0.16	3.0	0.72	6.5	26	57	6846	131	1.1	24	6.7	1.8	1.5	4233	0.25	60	1.0	84
2547	555130	5191195	12.0	42	6.8	42	27	0.16	1.6	0.51	5.1	24	60	4232	65	1.4	18	5.9	1.4	1.5	3926	0.25	102	3.8	48

Site	Easting	Northing	Lake	LOI	pH	Cond	Temp	Ag	As	Cd	Co	Cr	Cu	Fe	Mn	Mo	Ni	Pb	Pd	Pt	S	Sn	Ti	U	Zn
Number	Method------------------>		Depth	Grav.	YSI	YSI	YSI	ICP-MS	INAA	ICP-MS	ICP-MS	ICP-OES	ICP-OES	ICP-OES	ICP-OES	ICP-MS	ICP-OES	ICP-MS	FAICPMS	FAICPMS	ICP-OES	ICP-MS	ICP-OES	ICP-MS	ICP-OES
	Detection Limit------->			0.1	0.01	1	0.01	0.02	0.5	0.050	0.05	4	5	5	1	0.10	5	0.05	0.3	0.3	30	0.50	3	0.05	2
	Units------------------>		m	%		µS/cm	°C	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm
	(NAD 83 Zone 17)																								
2548	554733	5191442	11.0	NS	7.0	55	25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2549	555334	5189850	3.0	40	7.1	40	27	0.11	4.2	0.96	9.2	33	58	8172	267	0.9	42	13.0	1.7	1.7	4324	0.25	87	1.6	87
2550	554404	5189049	28.0	NS	7.1	55	25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2551	554166	5190064	11.0	43	7.0	40	27	0.08	3.0	0.59	6.0	21	51	5786	82	1.2	37	10.8	1.9	2.8	4476	0.25	117	0.7	38
2552	554368	5191682	12.0	52	6.9	42	27	0.16	3.7	0.87	5.8	24	80	4766	98	1.1	27	13.1	1.8	2.2	4646	0.25	70	1.1	65
2553	553537	5192989	9.0	57	7.0	43	27	0.27	37.0	1.42	43.1	30	109	25006	186	3.9	32	6.3	6.2	3.4	13071	0.25	84	2.6	118
2554	553279	5191931	5.0	47	7.0	37	26	0.11	3.7	0.89	10.3	29	60	9986	253	0.8	22	6.4	1.6	2.4	3333	0.25	65	0.7	83
2555	553489	5191275	9.0	54	6.9	34	27	0.15	3.2	1.10	12.0	18	71	9598	320	0.8	27	9.5	1.2	2.0	7550	0.25	51	0.5	90
2556	553221	5190883	13.0	44	6.9	36	27	0.19	8.7	1.16	9.2	27	80	13671	372	1.5	36	19.9	2.5	2.7	5265	0.52	62	0.9	120
2557	553063	5190584	4.0	52	6.9	34	27	0.10	2.2	0.99	9.1	27	69	10334	426	1.2	25	2.7	1.6	1.0	3670	0.25	58	1.0	114
2558	553149	5190185	6.0	44	6.9	34	27	0.11	1.9	0.77	9.6	19	48	8387	236	0.9	22	3.7	1.0	1.4	2724	0.25	[illegible]	0.4	65
2559	553676	5189587	2.0	45	6.8	43	28	0.22	4.7	0.72	6.0	10	73	2882	67	7.0	16	3.0	1.7	1.2	6108	0.25	37	1.0	55
2560	552393	5188476	7.0	NS	7.1	62	26	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2561	552385	5190258	3.0	53	7.2	40	27	0.14	2.3	1.03	4.7	9	51	3141	56	1.4	18	5.2	1.4	1.6	5680	0.25	36	0.5	86
2562	551521	5189955	12.0	64	6.9	29	27	0.21	4.0	0.82	11.3	25	55	11556	419	1.9	18	4.3	2.9	2.1	5797	0.25	53	0.6	82
2563	550988	5191466	7.0	45	6.8	63	27	0.23	6.2	0.92	6.6	35	54	8130	187	2.4	24	10.4	2.7	2.3	3805	0.25	64	2.8	73
2564	550506	5189958	3.0	62	7.0	57	27	0.25	7.5	1.07	11.9	33	105	7396	107	5.7	34	3.3	INF	INF	6030	0.25	79	4.3	114
2565	549820	5190358	2.0	39	7.1	63	27	0.07	7.7	0.70	6.5	29	69	8275	76	4.0	29	4.7	2.7	1.7	9391	0.25	115	3.7	75
2566	549179	5192869	5.0	57	7.2	38	27	0.10	2.6	0.70	8.6	22	40	7993	160	1.0	23	6.0	2.2	2.3	3607	0.25	109	0.8	56
2567	550860	5192394	3.0	48	7.0	63	27	0.05	5.9	0.77	5.4	27	69	4407	75	3.8	[illegible]	3.6	2.4	1.7	6781	0.25	68	3.0	76
2568	550556	5193127	12.0	36	7.1	69	26	0.09	4.9	0.52	6.3	32	47	11613	197	1.4	21	7.6	2.7	2.4	2607	0.25	70	2.0	61
2569	550230	5193745	17.0	54	7.0	34	26	0.26	11.0	1.43	23.4	26	85	14413	319	1.0	61	48.2	4.0	3.2	9192	1.30	93	0.9	105
2570	549350	5194975	2.0	58	6.8	31	27	0.05	2.5	0.72	4.9	10	57	2088	35	0.9	32	4.2	1.3	1.5	3832	0.25	52	0.5	57
2571	550297	5197219	4.0	42	6.6	34	28	0.06	2.8	0.60	4.3	12	38	2538	41	1.0	23	5.0	1.2	1.3	3597	0.25	53	0.8	42
2572	550217	5198679	1.0	31	6.6	38	29	0.04	1.8	0.38	3.1	15	22	3145	48	0.6	20	4.9	0.7	1.5	2638	0.25	68	0.9	35
2573	549469	5198998	1.0	47	6.6	38	27	0.02	5.1	0.47	3.6	10	30	2450	35	1.4	17	3.2	0.8	1.3	3534	0.25	54	1.6	38
2574	548527	5199032	2.0	51	6.7	34	27	0.05	5.9	0.59	6.7	18	44	2930	19	2.0	25	3.8	1.3	1.7	5173	0.25	91	2.5	54
2575	549323	5200751	20.0	34	6.6	33	25	0.15	10.0	1.12	14.7	45	72	17856	299	3.2	[illegible]	12.9	1.7	2.3	3629	0.25	124	2.4	136
2576	548866	5201537	2.0	52	5.6	36	27	0.14	3.4	0.97	10.0	25	61	3824	41	1.4	36	5.5	1.1	1.5	5182	0.25	66	1.4	112
2577	547642	5201886	10.0	NS	4.7	35	27	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2578	547451	5203334	7.0	41	5.1	30	27	0.22	5.0	0.73	11.4	28	53	10716	76	0.8	48	16.1	1.4	1.8	6593	0.25	83	1.0	82
2579	547069	5205180	11.0	NS	5.9	62	25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2580	549798	5203428	11.0	NS	4.8	36	27	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2581	550448	5203977	5.0	39	4.9	30	27	0.07	2.9	0.56	8.3	29	26	6732	114	0.7	20	5.0	0.6	1.6	2490	0.25	102	0.9	67
2582	551123	5203646	5.0	41	5.3	29	28	0.07	3.7	0.59	9.4	23	29	5766	105	1.3	24	4.5	0.8	1.5	3621	0.25	72	1.1	66
2583	551830	5202797	4.0	22	5.8	41	27	0.08	8.6	0.60	11.3	38	44	16662	312	1.2	34	7.8	1.3	1.7	4750	0.25	127	2.0	89
2584	550493	5201851	12.0	39	5.8	30	25	0.24	11.0	2.35	16.5	32	82	12037	143	1.7	66	57.8	INF	INF	7157	1.63	60	1.1	149
2585	552521	5199513	23.0	NS	6.1	39	26	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2586	552118	5198168	9.0	16	6.0	69	25	0.01	2.6	0.33	3.8	21	22	8414	180	1.0	17	3.6	0.9	0.8	1453	0.25	141	0.9	40
2587	551680	5196154	13.0	NS	6.7	70	25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2588	552969	5194815	6.0	29	6.8	69	25	0.01	4.3	0.51	3.4	22	47	6098	111	2.1	31	2.9	1.5	0.9	4311	0.25	144	1.4	59
2589	553520	5192961	8.0	56	6.9	47	27	0.21	14.0	1.19	25.9	30	88	12347	232	2.3	26	5.3	5.3	2.2	7043	0.25	70	1.6	119
2590	554017	5193319	4.0	38	6.9	61	27	0.33	6.9	0.75	9.0	23	91	8482	98	1.3	25	16.2	4.4	3.8	7551	0.25	56	1.7	54
2591	554946	5193273	3.0	68	7.0	52	27	0.05	INF	0.58	7.2	28	70	6539	97	3.4	26	2.1	INF	INF	7471	0.25	84	1.5	92
2592	554705	5194348	8.0	52	7.1	51	27	0.19	5.6	0.72	5.8	31	65	5041	187	2.7	21	8.5	3.9	2.2	6263	0.25	59	1.5	85
2593	554276	5195210	2.0	53	7.1	34	27	0.08	2.2	0.50	2.9	13	40	1777	32	1.5	19	2.6	1.8	0.9	4258	0.25	49	0.6	32
2594	554995	5195272	11.0	52	7.0	42	26	0.23	10.0	1.40	16.8	29	88	14899	566	1.4	49	45.4	2.3	1.7	11747	1.20	83	0.9	140
2595	555446	5194759	8.0	56	7.0	44	27	0.14	4.0	0.57	6.3	24	65	6150	110	1.5	27	9.4	1.8	0.9	7159	0.25	61	1.1	63
2596	555788	5194072	3.0	39	7.0	58	29	0.11	3.0	0.50	5.4	12	48	2293	63	1.9	15	2.3	2.4	1.9	4308	0.25	40	0.9	55
2597	557219	5192744	3.0	NS	7.2	38	26	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2598	558347	5192388	2.0	54	7.0	28	27	0.10	2.4	0.70	5.1	23	83	3430	31	1.0	31	3.2	1.1	0.7	5284	0.25	57	1.0	49
2599	559295	5194041	7.0	64	6.9	42	26	0.12	5.3	0.88	7.5	25	70	6003	111	2.9	32	12.1	INF	INF	6728	0.25	70	1.6	69
2600	560411	5192471	18.0	NS	7.1	42	24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2601	561514	5192949	3.0	61	7.0	41	26	0.11	2.9	0.80	5.4	14	63	2359	41	1.9	26	4.1	1.4	1.1	5208	0.25	60	1.2	91
2602	562974	5190147	4.0	59	7.0	37	26	0.16	3.4	0.83	9.8	24	73	11173	190	1.6	26	4.3	1.2	0.9	5245	0.25	91	1.2	109
2603	564761	5189798	20.0	24	7.1	63	24	0.11	7.2	0.99	10.3	40	49	14727	673	2.1	32	10.1	1.9	1.7	2207	0.25	132	2.1	110
2604	567994	5191276	5.0	52	7.1	34	27	0.16	3.7	0.78	4.9	16	39	6440	132	2.1	19	5.4	0.9	1.9	4066	0.25	88	1.1	80
2605	569148	5190640	18.0	59	6.2	21	27	0.38	11.0	1.37	9.2	28	68	15986	127	1.3	58	40.7	INF	INF	11263	1.39	65	0.7	104
2606	570159	5189279	17.0	22	6.4	68	23	0.13	12.0	1.00	10.0	44	53	17810	664	2.4	42	22.3	2.4	2.4	2607	0.66	121	2.8	102
2607	572540	5188410	11.0	17	6.8	50	26	0.14	5.2	0.52	15.9	53	38	25304	497	1.2	45	15.0	1.4	1.4	1575	0.25	280	2.2	107
2608	573194	5188752	2.0	54	6.8	42	28	0.11	2.6	0.57	5.5	12	51	1960	53	1.6	34	3.4	1.4	1.5	4649	0.25	62	1.1	59
2609	575023	5189663	3.0	54	6.8	70	26	0.05	3.8	0.42	4.4	24	60	5952	84	2.4	29	3.0	1.6	1.6	6407	0.25	98	3.5	63
2610	575502	5191246	7.0	31	7.1	57	26	0.15	8.2	0.88	12.8	43	55	14258	920	1.7	43	19.6	2.5	2.8	3292	0.57	99	2.0	110
2611	596874	5195879	3.0	68	7.4	92	27	0.12	2.1	0.80	6.2	18	37	3497	109	2.0	20	4.0	0.7	0.2	4994	0.25	48	1.2	88
2612	595909	5197624	8.0	62	7.8	84	27	0.29	2.9	0.75	3.3	17	45	5386	70	2.4	20	5.5	INF	INF	6310	0.25	65	2.4	91
2613	595210	5199310	13.0	53	7.8	160	27	0.41	INF	1.41	18.0	35	64	16727	1099	1.5	31	37.6	INF	INF	10197	0.86	84	3.0	149
2614	597945	5202355	2.0	70	7.9	87	27	0.14	INF	0.63	5.3	23	45	3070	110	2.7	24	8.3	INF	INF	6857	0.25	94	1.9	85
2615	596860	5203033	12.0	32	7.8	71	27	0.27	4.5	0.69	10.0	45	50	14665	304	1.0	26	11.1	1.5	1.1	3666	0.25	173	1.5	99
2616	595731	5202583	1.0	48	7.6	87	28	0.14	4.5	0.68	8.1	30	57	9575	211	1.4	31	8.6	1.4	1.6	7181	0.25	115	1.8	78
2617	594664	5202895	1.0	53	7.7	32	27	0.10	2.8	0.68	10.3	34	37	7108	60	1.0	33	6.4	1.1	1.6	4467	0.25	71	1.1	78
2618	595016	5203973	3.0	56	7.2	27	27	0.12	1.6	0.80	4.5	16	34	2941	48	1.5	21	4.7	0.7	0.2	3914	0.25	53	0.8	57
2619	595357	5205465	9.0	20	7.0	67	26	0.08	2.1	0.33	6.4	40	26	11967	139	0.5	25	5.6	1.0	0.9	1631	0.25	245	1.0	54
2620	595874	5203970	5.0	NS	7.4	69	26	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2621	597692	5205122	23.0	58	7.7	51	26	0.32	4.0	0.96	5.7	31	39	9400	732	1.2	18	11.1	INF	INF	6177	0.25	73	1.0	106
2622	597181	5204804	14.0	45	7.6	52	26	0.47	5.6	1.56	19.7	63	63	25994	1516	2.7	38	10.0	INF	INF	3015	0.25	150	2.4	199
2623	595950	5205684	15.0	47	7.5	71	26	0.40	17.0	0.93	12.9	43	87	23656	512	1.7	26	28.5	2.1	2.2	7945	0.80	152	2.2	112
2624	595905	5205988	3.0	62	7.6	74	27	0.15	3.9	0.70	7.1	32	63	5720	70	2.5	36	4.0	INF	INF	6915	0.25	142	1.8	83
2625	595209	5206282	7.0	NS	7.7	69	26	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2626	595456	5207570	10.0	11	7.7	68	25	0.09	2.2	0.32	7.6	39	24	14157	265	0.5	22	4.1	2.2	1.0	797	0.25	262	1.1	55
2627	595441	5208548	1.0	64	7.7	39	26	0.06	1.5	0.63	3.6	8	27	1590	39	1.0	16	2.5	0.6	1.5	3660	0.25	51	0.8	50
2628	596870	5210715	7.0	NS	7.4	100	25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2629	595863	5211286	2.0	38	7.6	122	27	0.14	6.7	0.49	2.9	19	50	5387	31	3.3	16	9.9	[illegible]	0.8	7782	0.25	77	3.2	47
2630	595203	5211458	1.0	57	7.6	44	27	0.10	2.7	1.12	9.4	21	36	3624	174	0.8	31	10.5	1.4	2.6	5147	0.25	66	1.2	69
2631	595519	5211735	1.0	62	7.5	75	28	0.23	4.6	0.61	6.6	18	71	5008	47	1.8	14	3.6	3.4	2.0	8083	0.25	91	1.9	80
2632	597396	5212483	8.0	NS	7.7	101	25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2633	598421	5214120	10.0	NS	7.7	102	25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2634	596676	5214611	9.0	9	7.7	103	25	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD
2635	596229	5214552	1.0	52	7.6	76	28	0.05	2.0	0.31	3.6	8	27	1037	25	1.6	13	1.5	0.7	0.2	4414	0.25	36	0.5	37
2636	595654	5214684	4.0	NS	7.7	81	27	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2637	594380	5214232	1.0	75	7.7	100	27	0.03	1.8	0.32	2.8	7	31	1632	37	2.5	13	1.3	INF	INF	8133	0.25	39	0.4	51
2638	594160	5212891	6.0	34	7.8	116	27	0.30	6.7	0.76	14.5	41	66	12234	468	2.6	32	7.1	2.5	2.4	3887	0.25	170	2.4	121
2639	593733	5211818	6.0	66	7.8	40	28	0.22	2.4	0.70	5.9	22	44	4862	81	1.2	28	7.4	0.9	2.1	5456	0.25	63	0.7	118
2640	594346	5211212	11.0	56	7.3	43	26	0.24	4.0	0.91	13.0	35	46	10059	295	1.0	28	13.1	1.2	2.2	3907	0.25	117	1.2	97
2641	594407	5209914	2.0	55	7.0	25	26	0.16	1.6	0.48	4.2	19	37	2418	38	1.0	25	2.9	0.6	1.4	2878	0.25	73	0.7	58
2642	594479	5209009	2.0	46	6.7	40	27	0.13	2.7	0.73	8.7	36	29	9790	65	0.7	31	5.6	0.7	0.8	3344	0.25	97	1.1	91
2643	594485	5208334	2.0	38	6.9	41	27	0.12	2.6	0.57	7.8	33	25	9293	157	0.5	27	5.7	0.8	1.6	2590	0.25	147	0.8	66

Site	Easting	Northing	Lake	LOI	pH	Cond	Temp	Ag	As	Cd	Co	Cr	Cu	Fe	Mn	Mo	Ni	Pb	Pd	Pt	S	Sn	Ti	U	Zn
Number	Method------>		Depth	Grav	YSI	YSI	YSI	ICP-MS	INAA	ICP-MS	ICP-MS	ICP-OES	ICP-OES	ICP-OES	ICP-OES	ICP-MS	ICP-OES	ICP-MS	FAICPMS	FAICPMS	ICP-OES	ICP-MS	ICP-OES	ICP-MS	ICP-OES
	Detection Limit------>			0.1	0.01	1	0.01	0.02	0.5	0.050	0.05	4	5	5	1	0.10	5	0.05	0.3	0.3	30	0.50	3	0.05	2
	Units------>		m	%		µS/cm	°C	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm
	(NAD 83 Zone 17)																								
2644	593521	5208731	12.0	58	7.1	61	26	0.18	4.8	0.80	8.6	34	42	10491	254	1.4	25	16.1	INF	INF	6527	0.25	115	1.3	88
2645	592927	5208394	12.0	59	7.3	37	26	0.16	4.6	0.76	8.3	27	46	8659	225	0.9	23	14.2	1.8	2.2	4548	0.25	99	1.0	71
2646	593370	5206838	13.0	26	7.3	67	25	0.19	4.6	0.80	13.1	54	61	27446	797	1.3	34	7.5	1.9	1.9	1737	0.25	151	2.4	99
2647	592647	5206774	1.0	52	7.6	70	27	0.13	4.0	0.48	4.9	20	44	4214	42	1.5	24	9.3	INF	INF	6234	0.25	86	1.3	56
2648	593863	5206143	13.0	58	7.5	37	27	0.24	3.6	0.74	8.1	25	48	9493	271	1.0	19	8.2	INF	INF	5361	0.25	80	0.7	76
2649	592916	5202878	3.0	67	7.4	45	27	0.21	2.7	0.76	6.5	18	37	3842	75	1.3	24	7.9	INF	INF	5255	0.25	86	0.7	75
2650	593699	5202539	6.0	55	7.1	30	27	0.16	1.5	0.59	3.0	11	27	2189	56	1.2	13	3.0	0.5	1.6	3379	0.25	49	0.8	39
2651	594052	5202162	1.0	65	6.8	35	27	0.12	1.9	0.72	7.1	14	32	1739	37	1.4	29	4.3	INF	INF	3909	0.25	77	0.9	50
2652	594119	5200426	1.0	78	7.6	186	27	0.26	7.1	1.02	7.1	30	90	7805	78	4.2	33	7.2	INF	INF	8237	0.25	122	3.1	101
2653	594337	5198756	2.0	65	8.4	106	27	0.16	4.2	0.48	5.7	21	55	5463	84	2.6	16	2.9	INF	INF	6649	0.25	78	1.7	62
2654	594439	5197396	4.0	53	7.9	31	27	0.13	2.0	0.50	2.7	13	27	2792	51	0.7	16	5.2	0.4	1.2	2906	0.25	45	2.7	34
2655	594586	5196583	2.0	69	7.3	46	27	0.13	1.8	0.63	6.9	18	29	2791	48	1.5	24	4.4	INF	INF	4317	0.25	71	1.1	83
2656	593962	5195296	3.0	35	7.3	53	26	0.16	4.4	0.67	11.6	52	57	15603	365	1.2	35	5.3	1.6	1.4	6426	0.25	216	3.5	89
2657	594355	5194264	5.0	49	7.3	299	26	0.24	5.7	1.15	12.4	47	63	13081	498	2.5	39	13.3	INF	INF	10198	0.25	101	2.8	126
2658	552956	5218929	8.0	NS	7.6	47	23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2659	552206	5221102	4.0	45	7.0	25	24	0.06	1.9	0.49	8.5	27	21	8643	103	1.5	19	5.0	0.5	1.5	3278	0.25	56	2.6	62
2660	554319	5221650	2.0	47	6.2	26	24	0.04	2.1	0.31	2.9	15	19	3480	40	0.9	17	5.5	0.4	0.9	3403	0.25	31	3.2	12
2661	554842	5222158	2.0	26	5.5	26	24	0.04	11.0	0.45	5.2	20	14	9200	124	4.3	17	3.5	0.5	1.0	5760	0.25	85	2.3	36
2662	556859	5222013	3.0	25	5.2	22	24	0.05	2.7	0.38	6.4	21	12	7262	51	0.5	16	5.5	0.4	1.1	1941	0.25	89	1.3	37
2663	556797	5223489	7.0	38	5.1	23	24	0.09	2.8	0.49	5.0	26	16	8436	107	1.1	14	8.4	0.7	1.5	2857	0.25	59	2.1	35
2664	556204	5223655	11.0	32	5.4	22	24	0.07	5.9	0.70	13.4	35	20	30847	257	1.4	22	10.0	0.8	1.7	3262	0.25	127	2.1	69
2665	556906	5224350	3.0	28	5.6	24	24	0.09	6.7	0.88	13.8	50	28	48665	224	1.1	30	8.8	0.9	1.3	3819	0.25	121	3.0	103
2666	557065	5225437	11.0	30	5.7	23	24	0.06	2.5	0.54	10.7	37	18	19423	310	0.9	18	6.3	0.5	1.2	1920	0.25	135	2.0	58
2667	557863	5225362	2.0	42	5.9	35	24	0.12	16.0	0.56	17.5	81	52	63845	116	2.6	30	4.5	1.9	1.3	5494	0.25	177	6.0	74
2668	557359	5224625	2.0	61	5.9	23	25	0.10	3.0	0.98	5.2	24	28	5758	101	1.0	17	5.6	0.8	0.6	5602	0.25	41	2.8	85
2669	556279	5226199	2.0	56	4.8	34	24	0.09	1.3	0.58	2.4	11	22	3424	54	0.8	13	2.9	0.4	1.2	4100	0.25	47	1.9	42
2670	556728	5227198	5.0	29	4.6	34	25	0.05	1.1	0.26	2.1	17	15	3534	35	0.4	15	5.0	0.3	0.8	1939	0.25	54	3.5	13
2671	556146	5227149	4.0	47	4.7	30	25	0.07	1.9	0.53	3.6	19	17	5894	58	1.5	18	5.3	0.4	1.3	3823	0.25	64	2.8	48
2672	555733	5227473	2.0	51	4.4	36	24	0.04	1.3	0.60	3.4	11	17	2221	36	0.8	14	4.1	0.4	1.4	3040	0.25	52	3.1	33
2673	555686	5226167	6.0	54	4.6	32	25	0.07	1.8	0.62	8.1	21	25	6589	110	0.9	18	8.0	0.7	1.9	4378	0.25	61	4.6	58
2674	554970	5226349	12.0	21	5.4	23	25	0.06	14.0	0.50	46.6	33	16	54288	1276	1.9	22	5.8	0.5	0.6	1470	0.25	164	3.1	57
2675	554312	5224452	8.0	33	4.8	29	24	0.06	1.7	0.49	9.0	31	19	11023	90	1.0	21	4.6	0.6	1.6	1926	0.25	126	2.7	46
2676	553518	5225378	9.0	43	4.7	30	24	0.10	1.9	0.56	4.8	27	22	5530	71	0.6	18	8.5	0.7	1.9	2672	0.25	117	2.4	32
2677	553507	5224814	1.0	50	4.4	35	24	0.06	1.4	0.44	2.7	13	19	2209	23	0.9	18	4.4	0.4	1.5	2548	0.25	65	3.5	25
2678	552790	5224285	13.0	43	4.7	27	24	0.14	3.4	1.19	43.1	44	37	25345	758	2.1	29	10.7	0.9	2.0	3217	0.25	162	5.2	98
2679	553260	5223689	7.0	36	4.8	26	24	0.10	2.2	0.51	15.4	35	24	16909	234	1.1	22	7.6	0.5	1.3	2542	0.25	128	3.2	56
2680	552891	5222749	6.0	29	4.9	24	24	0.07	2.0	0.48	11.2	32	20	10378	121	1.9	23	6.6	0.4	1.1	2873	0.25	144	4.0	85
2681	552567	5222858	11.0	NS	4.3	36	24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2682	552266	5222973	4.0	50	4.5	30	24	0.12	2.4	1.04	5.0	23	27	8562	130	2.1	14	10.8	0.5	1.8	2789	0.25	86	5.7	40
2683	551601	5223597	20.0	NS	4.6	29	24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2684	552111	5225297	6.0	28	4.5	32	24	0.06	1.0	0.32	3.7	21	12	6545	67	0.4	14	4.4	0.3	1.1	1588	0.25	123	1.6	26
2685	553321	5226444	1.0	35	4.6	32	24	0.06	1.2	0.21	1.8	12	18	1995	22	0.5	17	4.3	0.2	1.0	2309	0.25	60	2.5	10
2686	554275	5227997	4.0	21	5.2	23	24	0.05	3.1	0.38	10.4	30	16	12573	197	1.0	18	4.1	0.3	1.0	2271	0.25	125	2.5	59
2687	551951	5228726	5.0	55	4.6	30	25	0.14	4.8	0.60	4.1	20	35	12371	83	1.1	23	17.0	1.1	1.8	7487	0.25	54	2.7	54
2688	552107	5229168	5.0	46	5.4	30	25	0.11	3.3	0.92	13.7	32	35	36037	254	2.3	28	9.1	1.0	0.8	5568	0.25	113	3.6	76
2689	552144	5230148	1.0	42	5.8	29	25	0.16	10.0	0.46	22.2	53	83	10126	47	2.1	29	15.9	2.3	2.3	8306	0.25	191	4.9	36
2690	552343	5230284	4.0	56	5.5	26	24	0.07	1.4	0.60	3.4	19	30	3732	60	0.7	15	3.2	0.6	1.9	3236	0.25	86	1.3	54
2691	552014	5230403	2.0	48	5.5	27	25	0.17	3.8	0.56	12.0	33	61	13243	48	1.8	23	4.2	1.7	0.9	5321	0.25	106	4.6	42
2692	550886	5229544	3.0	43	5.8	28	25	0.05	2.1	0.66	11.4	25	20	19730	136	1.9	23	2.1	0.6	1.4	3903	0.25	95	2.6	72
2693	549528	5229573	2.0	44	5.6	25	24	0.06	1.7	0.56	3.6	15	16	4330	49	1.0	18	6.3	0.5	1.4	3887	0.25	72	0.9	41
2694	549527	5228510	2.0	32	5.1	30	24	0.04	1.5	0.35	1.5	11	17	1412	18	0.5	17	6.8	0.7	1.3	2783	0.25	44	3.5	13
2695	550317	5228494	5.0	32	5.2	26	24	0.17	6.5	1.18	6.1	24	31	10177	80	0.8	38	31.6	1.8	2.5	4544	1.17	113	1.0	71
2696	550036	5227042	6.0	45	5.2	25	24	0.13	7.2	1.04	11.0	22	25	11470	135	1.4	27	35.5	0.8	0.8	7162	1.21	81	1.4	57
2697	549122	5227315	10.0	43	4.5	31	24	0.05	3.9	0.65	4.7	9	25	6789	60	1.2	21	10.7	1.0	2.1	7072	0.25	45	1.1	45
2698	546645	5227444	2.0	28	4.6	37	24	0.01	0.3	0.41	1.6	14	9	2152	27	0.4	11	2.5	0.3	1.3	1634	0.25	77	1.2	21
2699	548280	5228598	2.0	37	4.6	28	23	0.02	1.1	0.43	1.6	16	14	1575	26	0.3	16	4.0	0.4	1.4	2408	0.25	73	0.6	24
2700	547703	5229834	8.0	41	5.0	25	24	0.01	2.5	0.65	7.0	29	22	9647	112	0.6	18	7.0	0.5	1.8	3742	0.25	101	1.5	47
2701	548260	5230732	1.0	48	5.0	25	22	0.09	2.1	0.38	2.0	13	17	4613	44	0.9	17	7.7	0.7	1.6	3212	0.25	57	0.6	18
2702	548113	5231264	1.0	56	5.2	29	23	0.01	2.7	0.50	2.7	9	18	5666	41	0.8	20	11.1	0.6	1.5	4070	0.25	39	0.6	21
2703	547738	5231860	1.0	40	5.2	25	23	0.01	2.5	0.62	2.7	12	16	1530	30	0.8	21	11.2	0.7	1.6	3336	0.25	46	0.7	20
2704	547705	5232625	2.0	50	4.8	31	24	0.01	1.2	0.56	2.2	9	21	2014	27	0.9	13	2.7	0.4	1.4	2875	0.25	51	0.5	27
2705	547009	5232534	1.0	58	5.0	28	24	0.01	2.3	0.70	5.0	16	29	5045	55	1.6	20	8.5	0.2	0.2	4437	0.25	52	0.6	48
2706	546329	5232867	4.0	36	5.4	27	24	0.03	2.2	0.62	6.3	25	28	8517	88	1.3	15	3.6	0.6	2.0	3481	0.25	108	1.2	45
2707	545977	5232692	4.0	37	5.6	30	24	0.05	2.3	0.34	5.3	21	23	6365	67	0.9	18	4.8	0.5	1.3	3012	0.25	92	0.9	49
2708	546329	5232380	1.0	30	5.8	31	22	0.01	1.7	0.31	6.4	18	19	9132	56	1.0	18	8.3	0.6	1.3	3581	0.25	86	0.8	43
2709	545776	5231264	1.0	30	5.6	33	22	0.01	1.0	0.27	2.3	8	14	2301	23	0.4	11	5.7	0.2	0.2	2444	0.25	68	0.4	13
2710	545576	5230160	3.0	34	5.7	34	23	0.06	2.8	0.74	8.0	31	25	11421	158	1.6	19	4.1	0.7	1.5	3376	0.25	85	1.6	67
2711	545333	5229452	4.0	61	6.0	27	25	0.08	1.7	1.18	4.1	15	26	1553	33	1.4	11	12.0	0.2	0.2	5259	0.25	56	0.7	114
2712	545424	5228798	4.0	39	5.9	22	24	0.01	1.9	0.57	3.6	21	16	4651	53	0.4	13	6.2	0.6	1.3	2832	0.25	92	0.7	68
2713	544843	5228131	1.0	22	5.4	28	24	0.03	1.9	0.15	3.7	18	15	4631	43	0.1	14	6.7	0.5	0.9	2139	0.25	114	1.4	27
2714	543745	5227376	1.0	55	4.4	42	23	0.06	1.8	0.34	2.0	17	14	1586	30	0.6	23	8.9	0.4	1.9	3370	0.25	81	1.1	37
2715	542778	5229176	6.0	39	4.5	35	24	0.06	2.5	0.65	3.3	24	19	6483	42	0.4	16	7.2	0.8	1.4	3707	0.25	94	1.2	32
2716	542979	5230071	5.0	37	4.6	30	24	0.01	6.3	0.45	5.7	32	16	9035	124	0.9	16	3.3	0.6	1.9	2709	0.25	75	1.3	75
2717	543210	5230610	10.0	34	6.1	37	24	0.11	21.0	0.86	15.2	30	37	18453	276	3.2	24	17.0	1.3	1.9	6996	0.25	116	2.0	68
2718	542769	5230837	1.0	41	6.3	35	22	0.01	3.6	0.47	6.8	27	28	5038	74	1.1	22	2.9	0.6	1.2	4963	0.25	90	1.6	48
2719	543496	5231298	4.0	62	6.4	38	23	0.06	7.4	0.87	8.7	20	46	6081	76	2.5	19	14.0	INF	INF	7630	0.25	62	2.3	59
2720	544363	5231527	6.0	37	6.5	32	23	0.02	2.2	0.34	4.0	18	18	4108	69	0.8	15	4.9	0.7	1.3	3195	0.25	93	1.0	45
2721	544573	5231986	1.0	32	6.4	29	23	0.04	1.7	0.14	1.8	18	13	2549	30	0.2	12	2.2	0.6	1.3	2098	0.25	71	1.0	10
2722	543448	5231910	2.0	43	4.6	34	24	0.07	2.4	0.57	4.4	34	32	3370	34	0.5	23	4.7	0.9	2.2	2510	0.25	134	1.4	83
2723	542936	5232499	5.0	32	4.7	27	23	0.12	2.1	0.45	3.1	20	20	4046	39	0.4	10	2.9	0.5	1.4	2115	0.25	98	1.3	27
2724	542749	5232006	2.0	61	4.4	34	24	0.04	4.0	0.49	2.0	10	15	1114	25	0.9	18	6.7	0.6	1.6	3922	0.25	74	0.9	23
2725	541994	5230910	6.0	27	5.4	28	23	0.16	6.0	0.87	20.8	35	27	25115	721	2.3	22	3.8	0.6	1.3	3069	0.25	118	2.2	90
2726	541430	5230467	3.0	NS	4.8	17	24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2727	540867	5232184	1.0	48	4.8	25	24	0.05	1.6	0.43	1.7	10	15	1511	24	0.2	14	7.2	0.6	1.7	3868	0.25	55	1.0	28
2728	540601	5232579	1.0	37	4.9	21	24	0.02	1.7	0.33	1.6	10	12	2560	35	0.2	13	9.2	0.6	1.7	2582	0.25	51	0.7	16
2729	537944	5233068	4.0	39	4.5	33	24	0.14	2.2	0.57	4.2	22	20	5672	73	0.3	14	7.6	0.5	1.4	4449	0.25	129	0.9	45
2730	538858	5231484	1.0	47	4.5	29	24	0.05	3.2	0.46	3.3	21	18	2611	30	0.2	14	3.6	0.7	1.3	2740	0.25	86	1.7	16
2731	538811	5230500	2.0	43	4.7	27	23	0.08	5.2	0.47	4.2	24	23	5135	39	1.0	20	3.1	0.2	0.2	3407	0.25	81	1.5	32
2732	538002	5230020	14.0	62	4.8	25	24	0.26	3.3	1.12	5.5	33	41	6741	138	0.8	22	12.1	0.9	0.2	6889	0.25	89	1.3	102
2733	538117	5229462	1.0	41	4.6	27	23	0.12	2.5	0.69	4.4	29	30	5647	43	0.5	24	8.5	0.7	1.4	3228	0.25	82	1.3	62
2734	538222	5228562	3.0	23	4.3	38	23	0.17	5.6	0.67	12.9	[illegible]	63	24810	690	1.9	28	6.9	1.6	1.9	1929	0.25	164	2.8	104
2735	538547	5228069	1.0	67	4.3	38	23	0.09	6.3	0.50	5.7	15	38	11060	106	5.5	10	2.0	INF	INF	11871	0.25	55	2.4	62
2736	538787	5227715	1.0	29	4.3	39	22	0.03	1.3	0.24	1.6	21	17	3405	33	0.1	14	6.5	0.4	1.1	2129	0.25	91	1.0	25
2737	541163	5229523	1.0	22	5.3	24	23	0.01	2.0	0.43	6.3	18	13	9242	161	0.3	12	7.2	0.7	1.1	1555	0.25	132	1.0	22
2738	541338	5229005	2.0	69	4.6	32	24	0.01	1.5	0.65	2.5	12	10	2723	50	0.6	9	3.3	INF	INF	3327	0.25	51	0.9	59
2739	542266	5228177	4.0	24	5.4	28	24	0.10	4.5	0.70	12.4	27	23	11933	276	0.8	21	9.9	0.8	1.6	5924	0.25	96	1.4	52

Site	Easting	Northing	Lake	LOI	pH	Cond	Temp	Ag	As	Cd	Co	Cr	Cu	Fe	Mn	Mo	Ni	Pb	Pd	Pt	S	Sn	Ti	U	Zn
Number	Method--------->		Depth	Grav.	YSI	YSI	YSI	ICP-MS	INAA	ICP-MS	ICP-MS	ICP-OES	ICP-OES	ICP-OES	ICP-OES	ICP-MS	ICP-OES	ICP-MS	FA/ICPMS	FA/ICPMS	ICP-OES	ICP-MS	ICP-OES	ICP-MS	ICP-OES
	Detection Limit------->			0.1	0.01	1	0.01	0.02	0.5	0.050	0.05	4	5	5	1	0.10	5	0.05	0.3	0.3	10	0.50	3	0.05	2
	Units--------->		m	%		µS/cm	°C	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm
	(NAD 83 Zone 17)																								
2740	542265	5226809	1.0	31	5.6	29	23	0.01	2.1	0.47	6.1	18	19	7825	89	1.2	17	6.6	0.9	1.4	3689	0.25	76	1.6	26
2741	541750	5227100	5.0	NS	4.2	42	24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2742	540791	5227271	1.0	NS	4.5	30	24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2743	540442	5226535	2.0	52	4.3	38	24	0.05	0.9	0.69	1.7	8	12	1000	25	0.5	12	2.4	0.5	1.7	3010	0.25	55	0.9	28
2744	540218	5226799	8.0	36	4.5	30	24	0.13	2.9	0.65	8.6	27	44	10908	130	0.8	15	5.8	0.8	1.7	3054	0.25	90	1.8	51
2745	539840	5225974	8.0	38	NM	NM	NM	0.12	1.9	0.66	4.6	30	23	8693	121	1.0	16	4.4	0.6	1.8	3197	0.25	94	1.4	56
2746	538148	5225667	19.0	19	4.7	26	24	0.09	9.3	0.58	11.3	37	52	10749	306	1.8	20	3.9	1.1	2.3	1476	0.25	187	4.7	43
2747	538839	5224881	10.0	45	4.8	28	24	0.34	12.0	3.34	16.3	36	64	14567	106	1.4	60	50.5	3.0	4.7	8277	1.72	129	1.8	177
2748	539508	5224938	8.0	45	4.7	28	24	0.08	5.0	1.24	5.2	21	34	9299	145	1.1	25	14.2	1.3	2.6	5112	0.25	58	1.0	74
2749	539956	5224755	10.0	48	4.6	NM	24	0.18	4.9	1.55	6.2	36	36	9735	130	1.0	26	16.2	1.5	3.1	5633	0.51	79	1.8	70
2750	540371	5224682	4.0	47	4.6	30	25	0.06	2.3	0.96	4.0	24	17	8830	60	1.0	15	5.1	0.6	2.3	4675	0.25	63	1.1	63
2751	547498	5223613	22.0	59	4.5	30	25	0.21	7.7	0.71	4.1	18	39	11659	93	1.4	28	31.3	1.0	0.6	9751	1.01	48	1.7	68
2752	547721	5223887	2.0	49	4.5	26	24	0.01	2.5	0.52	2.0	17	15	3729	51	1.1	17	6.0	1.1	2.9	5268	0.25	91	1.4	18
2753	547552	5226433	3.0	51	5.0	27	24	0.27	2.8	0.86	8.9	39	39	10922	290	1.5	17	9.8	0.5	1.5	3721	0.25	158	2.6	61
2754	547059	5223752	1.0	40	4.6	35	24	0.03	1.1	0.34	1.3	10	14	1326	18	0.6	12	3.7	0.3	1.1	2086	0.25	72	1.6	14
2755	546390	5222764	3.0	63	4.9	32	25	0.03	2.0	0.36	3.4	9	17	2985	66	1.5	22	7.7	0.6	1.7	4084	0.75	65	2.2	22
2756	546294	5223087	NM	44	5.1	30	25	0.04	1.6	0.57	3.8	20	17	5411	98	0.8	13	4.6	0.4	1.8	2906	0.25	99	2.1	35
2757	546846	5222364	1.0	47	5.2	25	24	0.05	2.1	0.79	3.6	16	13	4249	65	0.8	15	9.9	0.5	1.5	4348	0.25	67	1.6	32
2758	546615	5221819	3.0	54	5.5	31	25	0.07	2.2	0.52	5.0	11	19	2601	49	2.4	17	4.1	0.8	1.6	4455	0.25	82	2.2	47
2759	546098	5221694	7.0	67	5.8	27	25	0.01	1.9	0.87	4.2	12	28	10368	184	1.3	12	5.5	0.2	0.2	5527	0.54	43	0.8	85
2760	545418	5221755	4.0	62	5.2	29	25	0.07	1.1	0.80	2.2	10	20	2409	56	1.1	13	2.5	0.7	0.2	3685	0.25	54	3.0	33
2761	545490	5222167	6.0	66	5.3	25	25	0.03	1.7	0.62	4.6	14	23	4766	209	1.8	13	3.0	0.6	2.4	3877	0.25	48	1.6	56
2762	545144	5222582	19.0	52	5.8	28	25	0.18	6.9	0.80	15.9	28	28	16001	439	2.6	19	30.3	1.1	2.2	5591	0.57	113	4.1	61
2763	545154	5223109	5.0	62	5.7	37	25	0.06	1.8	0.65	1.7	10	29	8085	81	2.0	11	3.0	0.8	0.2	4435	0.25	57	1.0	47
2764	545515	5223497	4.0	57	5.3	36	25	0.04	2.0	0.81	3.5	12	18	5582	48	0.9	17	5.6	0.2	0.2	4772	0.25	72	1.7	46
2765	545204	5223687	4.0	56	4.9	36	25	0.08	2.3	0.44	4.4	13	19	3441	42	1.1	18	8.4	0.7	1.8	4988	0.25	76	2.1	40
2766	546182	5224913	34.0	46	5.4	28	25	0.06	2.2	0.82	5.8	31	22	6868	212	1.2	18	5.2	0.8	1.9	3344	0.25	110	2.4	53
2767	545365	5225811	6.0	58	4.8	34	25	0.02	1.4	0.50	1.9	8	15	2256	53	1.1	10	2.4	0.2	0.2	3964	0.25	59	0.9	27
2768	545288	5226521	12.0	35	5.5	26	25	0.05	2.6	0.54	12.7	29	20	15844	311	0.8	16	8.9	0.7	1.8	3122	0.25	133	1.6	57
2769	544458	5226119	5.0	35	5.1	28	25	0.04	0.9	0.55	3.5	20	14	5429	48	0.4	13	3.4	0.5	1.6	2262	0.25	112	1.1	32
2770	543782	5224433	10.0	38	5.5	27	25	0.05	1.6	0.68	4.1	21	16	5698	95	0.9	12	5.3	0.6	1.8	2594	0.25	101	1.5	36
2771	543745	5223808	5.0	53	5.5	25	25	0.01	1.5	0.46	1.1	7	16	5160	46	1.0	8	1.7	0.4	1.3	3478	0.25	67	1.1	28
2772	543848	5223447	5.0	48	5.3	25	25	0.04	1.2	0.41	1.5	9	13	4552	55	0.8	10	3.1	0.6	1.8	3103	0.25	69	1.4	28
2773	544702	5221953	2.0	57	5.3	28	25	0.01	1.7	0.87	3.3	12	19	3539	71	1.0	13	3.8	0.4	1.4	3827	0.25	71	2.0	40
2774	545248	5220610	5.0	18	5.2	24	25	0.01	1.6	0.54	9.4	22	13	12039	206	0.8	14	3.0	0.4	1.1	1660	0.25	157	2.3	56
2775	544346	5221724	1.0	12	5.5	29	28	0.01	2.0	0.36	5.2	24	28	6171	75	0.3	19	8.6	INF	INF	1519	0.25	349	1.9	20
2776	544208	5221885	13.0	13	5.9	25	24	0.01	1.3	0.44	8.0	19	10	10110	277	0.7	12	3.2	INF	INF	1120	0.25	153	1.6	42
2777	543274	5220424	10.0	52	6.0	27	24	0.10	4.1	0.36	7.5	36	22	47818	191	1.2	14	5.9	INF	INF	3873	0.25	193	2.1	36
2778	541972	5221366	2.0	56	4.9	32	25	0.01	1.6	0.53	1.7	2	9	1492	34	0.4	12	4.1	0.4	1.8	2912	0.25	48	0.6	19
2779	542773	5221431	8.0	48	5.5	32	25	0.04	1.4	1.02	1.6	13	15	2898	59	0.7	9	2.3	0.5	1.4	2846	0.25	67	0.7	30
2780	542377	5222651	1.0	49	5.9	37	24	0.06	1.8	0.82	9.4	24	38	6219	29	2.6	18	1.9	1.2	1.9	6281	0.25	95	2.8	-9
2781	542821	5223065	3.0	82	4.8	28	25	0.05	1.6	0.85	1.7	12	21	2653	66	0.5	10	2.1	INF	INF	3777	0.25	64	1.1	73
2782	542595	5223351	1.0	13	4.4	36	28	0.01	1.3	0.31	0.9	14	9	1646	24	0.2	9	8.0	0.4	0.6	867	0.25	77	0.5	18
2783	541695	5225919	2.0	31	5.0	28	26	0.07	1.4	0.33	3.0	18	33	3081	16	0.3	19	14.0	0.8	1.6	4660	0.25	72	2.7	24
2784	541723	5226268	5.0	73	4.6	32	25	0.01	1.5	0.97	2.5	6	21	3449	71	0.8	10	2.6	INF	INF	4599	0.25	54	1.2	43
2785	540995	5225607	7.0	29	4.5	33	25	0.01	1.2	0.30	2.7	12	12	2146	34	0.5	8	3.2	0.3	1.3	2707	0.25	94	1.3	16
2786	541311	5224535	1.0	54	4.2	41	25	0.01	0.9	0.34	1.1	9	12	801	10	0.5	14	4.3	0.5	1.7	2892	0.25	82	0.9	14
2787	540799	5224169	5.0	45	4.4	37	25	0.04	2.0	0.69	1.8	18	14	4171	43	0.5	11	2.9	0.5	1.9	2791	0.25	69	0.9	51
2788	541185	5224080	8.0	48	4.4	32	24	0.01	2.0	0.90	4.7	21	15	8181	200	0.8	14	3.4	0.5	1.7	3842	0.25	57	0.8	56
2789	541365	5223434	1.0	NS	4.3	35	24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2790	541434	5222645	4.0	39	4.6	30	25	0.01	1.5	0.61	4.9	17	16	4818	85	0.4	14	3.2	0.5	1.7	2782	0.25	72	1.3	35
2791	541036	5223316	1.0	41	4.4	35	24	0.08	1.7	0.44	1.9	9	16	2695	27	0.6	18	8.4	0.7	1.5	3075	0.25	66	1.0	26
2792	540859	5222761	2.0	34	4.4	41	24	0.10	1.3	0.41	1.5	16	13	3171	31	0.4	11	2.9	0.4	1.5	2293	0.25	80	0.9	28
2793	540449	5223311	3.0	31	4.8	37	25	0.12	1.1	0.39	1.4	9	14	1667	23	0.9	9	1.7	0.5	1.7	2236	0.25	68	0.9	21
2794	539964	5223318	7.0	53	4.6	32	24	0.17	2.6	0.96	2.7	28	26	6761	86	1.0	15	5.2	0.8	1.7	4368	0.25	152	1.0	65
2795	539193	5223233	3.0	54	4.5	37	25	0.08	1.6	0.61	4.8	19	26	3108	31	0.8	25	3.6	0.6	2.0	3807	0.25	122	1.6	45
2796	538960	5223576	1.0	26	4.5	37	25	0.10	1.7	0.30	2.1	14	15	3662	29	0.4	13	7.5	0.4	1.3	2480	0.25	70	0.9	16
2797	538623	5223050	1.0	46	4.5	34	25	0.08	2.5	0.46	1.5	6	12	1116	30	0.5	13	6.0	0.5	1.3	2982	0.25	55	0.5	19
2798	538234	5221107	12.0	31	4.9	27	24	0.08	5.6	0.96	34.4	41	30	47741	683	2.4	24	6.7	1.2	1.0	2533	0.25	150	1.8	97
2799	539093	5220716	2.0	44	5.1	27	25	0.03	2.6	0.90	8.7	21	27	6636	83	1.2	27	6.6	0.2	0.8	4720	0.25	93	1.8	62
2800	539591	5220510	1.0	27	5.1	32	25	0.01	0.6	0.25	1.2	11	11	1456	15	0.2	10	2.0	0.2	0.2	2402	0.25	81	1.6	5
2801	540769	5220497	2.0	39	4.7	34	25	0.05	1.6	0.57	6.8	22	19	4305	26	1.2	23	2.7	0.6	1.6	4664	0.25	95	3.0	38
2802	541088	5219832	1.0	18	5.3	40	26	0.03	0.8	0.03	1.7	20	27	2033	19	0.7	10	3.7	0.5	0.8	1525	0.25	116	8.8	9
2803	540551	5218818	1.0	36	5.5	30	25	0.04	1.6	0.23	1.3	7	14	1495	22	0.7	11	4.2	0.3	1.3	2621	0.25	59	2.1	10
2804	539788	5218970	1.0	35	4.4	32	22	0.08	1.8	0.30	2.9	12	69	1883	18	0.3	12	7.0	0.6	1.5	2684	0.25	79	4.4	12
2805	539175	5219677	3.0	48	5.0	27	25	0.26	40.0	2.82	64.7	36	67	36086	687	3.8	67	113.9	3.4	4.1	10004	1.85	121	2.0	155
2806	538177	5219957	3.0	43	5.3	27	25	0.04	1.6	0.51	3.2	11	17	2544	49	1.0	14	3.4	0.2	0.2	3193	0.25	75	1.2	35
2807	537913	5218947	10.0	NS	6.0	32	25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2808	539306	5218594	4.0	44	5.9	26	25	0.06	4.5	1.12	11.1	34	31	10852	341	2.0	20	8.0	0.9	1.1	4264	0.25	111	2.6	116
2809	539432	5218328	4.0	37	5.7	25	25	0.06	3.5	0.59	9.4	37	28	31905	149	2.0	21	5.2	0.6	2.0	3686	0.25	141	2.3	71
2810	539317	5217783	6.0	43	5.5	27	25	0.10	1.8	0.49	2.7	19	23	5926	56	1.3	13	4.2	0.7	1.6	3048	0.25	108	1.8	40
2811	538626	5217612	3.0	27	5.4	26	25	0.06	3.6	0.48	10.8	35	27	13831	227	1.6	20	5.9	0.7	1.7	4069	0.25	122	2.3	73
2812	538695	5216881	8.0	29	5.6	27	25	0.11	4.6	0.58	7.0	38	31	31173	232	2.2	15	6.2	0.7	1.9	2292	0.25	162	2.4	61
2813	538877	5216339	1.0	30	5.9	29	25	0.06	4.6	0.49	8.9	22	16	20440	239	2.6	16	7.7	0.6	0.2	2296	0.25	114	3.0	47
2814	539258	5215555	8.0	61	5.7	28	26	0.11	2.7	0.60	3.1	15	24	8542	112	1.2	12	7.0	0.2	0.8	4117	0.25	72	0.7	57
2815	539000	5215154	2.0	62	5.4	37	25	0.10	3.7	0.80	6.4	17	30	2764	39	1.5	21	10.1	INF	INF	3752	0.25	89	1.4	57
2816	539296	5215030	2.0	74	5.8	29	26	0.06	2.6	0.52	3.8	19	28	20062	100	3.2	11	1.7	INF	INF	7884	0.25	74	1.5	72
2817	538851	5213814	4.0	50	5.7	28	26	0.12	4.5	0.57	5.0	16	27	11006	147	2.7	17	14.1	0.9	0.9	6042	0.25	76	0.9	53
2818	538508	5213372	1.0	41	5.4	28	25	0.08	3.6	0.51	3.9	20	60	4871	56	0.7	30	16.1	1.8	1.4	3977	0.25	87	2.3	21
2819	538218	5212687	4.0	NS	5.7	30	25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2820	538551	5211930	1.0	16	5.9	31	25	0.08	6.0	0.82	17.2	25	34	10475	317	1.1	27	17.0	0.7	1.2	1705	0.25	168	2.4	63
2821	539015	5211667	5.0	20	6.1	31	25	0.06	4.0	0.64	16.6	42	25	23891	444	1.6	28	4.5	0.9	1.5	1806	0.25	202	2.1	108
2822	538031	5211407	3.0	43	6.2	31	25	0.06	3.2	0.74	11.2	42	42	42978	313	2.9	32	5.7	1.1	1.4	3330	0.25	172	1.8	93
2823	538054	5210503	5.0	31	6.3	31	25	0.09	3.3	0.55	6.4	29	32	15250	147	1.4	22	7.4	1.2	1.8	3865	0.25	135	1.1	52
2824	539624	5207915	1.0	34	5.9	31	26	0.10	2.8	0.45	4.1	13	19	4584	41	1.0	18	7.4	0.7	0.2	3991	0.25	81	0.9	29
2825	538874	5207570	1.0	21	5.9	35	26	0.01	0.7	0.13	1.0	12	20	1798	20	0.4	11	2.6	0.2	0.2	2103	0.25	72	1.1	8
2826	539197	5207373	1.0	36	6.0	31	26	0.11	1.8	0.44	2.8	16	34	2787	25	0.5	23	9.9	0.9	0.7	3369	0.25	100	1.6	14
2827	538909	5206076	1.0	38	5.8	36	25	0.09	2.1	0.45	3.5	13	38	3078	32	0.6	17	4.8	0.2	0.2	2674	0.25	96	0.7	26
2828	539119	5205908	1.0	42	5.7	38	26	0.07	1.8	0.62	9.7	27	50	6034	61	0.6	26	3.9	0.9	1.7	3409	0.25	127	1.0	58
2829	540905	5205861	1.0	52	5.1	37	25	0.24	INF	0.73	10.5	68	60	43826	21	0.9	49	18.2	INF	INF	26248	0.25	132	1.3	55
2830	541787	5209023	4.0	56	4.8	25	25	0.09	2.2	0.56	5.5	19	26	3463	41	1.2	21	5.4	0.6	1.8	3782	0.25	85	1.1	58
2831	541706	5209509	1.0	53	4.7	28	25	0.06	2.0	0.45	1.9	6	14	1788	42	0.9	13	6.5	0.6	1.8	3293	0.25	56	0.5	23
2832	541195	5210561	3.0	49	5.2	24	25	0.10	5.4	0.97	7.6	19	23	6466	256	2.2	17	4.0	0.2	0.6	5143	0.25	35	1.2	84
2833	541659	5211096	3.0	55	5.1	29	26	0.07	1.9	0.50	2.8	13	22	3060	46	1.5	15	4.0	0.5	1.7	4295	0.25	82	1.0	47
2834	539963	5215093	1.0	70	5.4	26	25	0.06	4.7	0.57	2.1	13	25	6982	74	2.4	12	4.6	1.5	2.0	4909	0.25	68	1.3	31
2835	540291	5214935	2.0	NS	5.3	27	25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Site	Easting	Northing	Lake	LOI	pH	Cond	Temp	Ag	As	Cd	Co	Cr	Cu	Fe	Mn	Mo	Ni	Pb	Pd	Pt	S	Sn	Ti	U	Zn
Number	Method ——>		Depth	Grav	YSI	YSI	YSI	ICP-MS	INAA	ICP-MS	ICP-MS	ICP-OES	ICP-OES	ICP-OES	ICP-OES	ICP-MS	ICP-OES	ICP-MS	FA/ICPMS	FA/ICPMS	ICP-OES	ICP-MS	ICP-OES	ICP-MS	ICP-OES
	Detection Limit ——>			0.1	0.01	1	0.01	0.02	0.5	0.050	0.05	4	5	5	1	0.10	5	0.05	0.3	0.3	30	0.50	3	0.05	2
	Units ——>		m	%		µS/cm	°C	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm
	(NAD 83 Zone 17)																								
2836	540266	5216920	7.0	39	5.5	26	25	0.09	2.1	0.48	5.6	25	19	6075	104	1.9	16	4.6	0.9	1.8	2836	0.25	125	4.3	42
2837	540247	5217616	1.0	51	5.1	27	25	0.09	1.4	0.28	1.4	11	15	2641	27	0.6	14	5.9	0.6	1.4	3141	0.25	52	1.2	11
2838	540975	5218160	8.0	18	5.3	24	25	0.04	1.7	0.42	5.6	17	10	9068	167	1.0	10	3.5	0.2	0.9	1211	0.25	138	1.0	46
2839	542317	5218516	1.0	43	4.7	35	25	0.09	2.2	0.49	2.6	10	19	2314	30	0.5	19	11.6	1.0	1.8	3320	0.25	88	1.2	16
2840	542143	5217109	3.0	36	4.9	27	25	0.08	1.6	0.30	3.1	18	14	4866	54	0.7	14	4.2	0.6	1.6	2023	0.25	104	1.5	27
2841	541434	5216285	6.0	49	5.2	27	25	0.08	2.7	0.48	5.6	24	23	6060	80	1.2	20	6.9	0.7	1.9	3426	0.25	131	2.1	49
2842	542734	5214143	1.0	43	5.4	29	25	0.07	2.1	0.52	3.7	15	17	3767	44	0.9	18	5.3	0.8	1.9	3194	0.25	91	1.8	13
2843	593317	5196134	3.0	NS	6.0	50	25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2844	593015	5197642	2.0	31	6.4	55	25	0.12	2.8	1.19	6.3	36	31	8825	148	0.4	27	9.1	1.0	1.5	3288	0.25	173	1.5	77
2845	593523	5198926	1.0	84	6.6	41	25	0.07	1.9	0.27	4.2	9	22	1952	27	0.8	13	1.7	INF	INF	3803	0.25	50	0.4	35
2846	592789	5199502	9.0	58	6.7	63	25	0.33	10.0	2.28	8.5	34	62	11320	169	1.7	47	60.8	INF	INF	8777	1.99	139	1.5	129
2847	593079	5200416	1.0	42	6.7	152	25	0.14	6.0	1.72	8.5	33	36	12366	226	0.9	35	33.7	1.8	1.9	5866	0.80	254	1.8	105
2848	591990	5201886	9.0	55	7.0	151	25	0.29	7.1	1.27	9.5	34	50	14262	383	1.3	34	37.8	1.8	2.7	10228	1.05	135	2.9	107
2849	592195	5202924	1.0	68	7.2	52	25	0.07	1.7	0.31	2.6	9	19	1622	28	1.4	17	2.9	1.4	1.9	4233	0.25	56	1.0	39
2850	591315	5206193	5.0	30	7.2	54	25	0.13	7.8	1.11	15.1	38	45	25660	573	1.0	41	21.7	1.6	2.2	4268	0.59	228	1.2	138
2851	591194	5207000	24.0	NS	7.3	63	24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2852	590872	5208250	3.0	65	7.3	220	24	0.17	5.1	0.75	10.4	16	78	6236	117	4.1	28	8.7	2.9	1.3	10010	0.25	98	1.0	88
2853	591196	5209196	1.0	65	7.4	420	25	0.16	4.3	1.19	7.4	22	83	7889	104	1.6	28	13.5	2.0	1.1	11293	0.25	151	1.1	89
2854	592580	5211363	4.0	59	7.7	188	25	0.20	7.1	1.13	12.0	35	57	11949	290	1.7	37	18.5	2.7	1.7	7740	0.25	143	1.6	115
2855	594399	5214260	1.0	76	7.7	100	25	0.02	2.2	0.43	2.7	7	42	1598	31	2.9	12	1.2	INF	INF	8371	0.25	47	0.5	54
2856	594872	5215696	6.0	36	7.8	472	25	0.22	6.1	2.13	8.7	39	46	15154	365	0.8	26	11.9	1.5	2.4	7182	0.25	288	1.2	164
2857	595295	5216017	5.0	8	7.8	472	25	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD
2858	595786	5216051	1.0	43	7.9	182	25	0.26	6.1	0.99	6.5	21	158	10893	61	2.2	31	2.7	2.4	1.7	13564	0.25	138	1.4	88
2859	597252	5216424	1.0	59	7.8	53	24	0.10	2.9	0.46	1.8	6	31	1176	18	1.4	15	6.5	0.9	1.7	5536	0.25	41	0.7	35
2860	596929	5217672	4.0	32	7.4	59	25	0.06	1.2	0.15	0.8	10	13	1638	21	0.3	11	2.5	INF	INF	1882	0.25	99	0.9	14
2861	597413	5218690	13.0	44	7.6	69	25	0.17	3.3	0.67	10.7	36	26	23251	187	1.0	16	6.0	0.9	1.7	3589	0.25	154	1.7	51
2862	597435	5220868	1.0	NS	7.6	51	25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2863	599545	5222773	2.0	69	7.6	89	25	0.21	6.3	0.60	5.3	19	51	4962	63	2.9	13	10.6	INF	INF	6630	0.25	56	2.6	72
2864	600709	5222675	1.0	56	7.7	127	25	0.28	4.6	0.57	2.3	11	77	2187	25	0.6	18	8.5	1.9	2.0	6131	0.25	52	2.5	40
2865	601130	5223295	1.0	66	NM	NM	NM	0.16	2.8	0.59	2.6	16	73	8303	40	4.0	24	5.1	4.3	1.8	13554	0.25	86	3.4	70
2866	600733	5224258	17.0	NS	7.9	49	24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2867	599702	5224695	2.0	53	7.8	96	24	0.34	5.8	0.71	4.8	18	77	3492	32	2.5	19	4.1	2.3	1.6	7994	0.25	82	2.5	65
2868	599972	5225293	1.0	45	7.9	103	25	0.24	3.5	0.57	7.1	10	53	2024	27	1.0	20	9.4	1.3	1.8	5101	0.25	51	1.7	42
2869	599367	5225671	1.0	48	7.8	147	25	0.50	12.0	0.75	7.9	34	156	11039	101	6.1	23	8.4	7.2	3.3	10654	0.25	138	4.4	63
2870	600853	5225142	2.0	62	8.0	91	24	0.14	3.4	0.63	6.2	24	49	3196	37	1.7	26	2.5	1.9	1.0	6205	0.25	84	4.7	71
2871	601380	5224680	3.0	52	7.8	48	25	0.25	1.8	0.60	7.2	18	32	2784	44	0.9	18	5.4	0.8	1.5	3804	0.25	62	1.8	54
2872	602225	5226915	1.0	48	7.5	56	25	0.22	2.2	0.54	4.2	21	40	3216	41	0.9	24	4.3	1.1	1.5	4230	0.25	78	2.1	54
2873	602940	5227337	5.0	60	7.5	46	23	0.17	5.2	0.48	5.5	35	88	14929	205	4.8	30	5.9	3.6	2.5	14829	0.25	158	4.7	55
2874	601875	5227595	1.0	43	7.5	122	24	0.19	2.1	0.63	4.7	23	32	4858	57	0.6	20	6.9	1.5	1.8	4148	0.25	105	3.2	62
2875	599466	5227653	1.0	33	7.7	79	24	0.40	3.1	0.26	3.7	14	125	2782	22	0.7	17	3.3	1.6	0.7	4289	0.25	87	2.0	28
2876	598642	5227432	1.0	54	7.5	133	24	0.17	5.1	0.83	8.4	18	42	5014	101	0.4	15	6.7	2.7	2.2	4751	0.25	73	3.5	46
2877	598177	5225706	20.0	NS	7.7	101	23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2878	597273	5224040	3.0	65	7.7	58	24	0.14	2.6	0.66	10.7	29	116	13513	106	2.1	35	4.0	2.2	1.3	7858	0.25	99	5.9	74
2879	597094	5222184	2.0	50	7.7	26	24	0.11	1.3	0.30	4.3	15	89	2573	52	0.4	12	1.9	0.2	0.2	2968	0.25	63	0.6	21
2880	596804	5220725	3.0	34	7.3	59	25	0.11	5.2	0.38	6.5	32	79	12873	172	2.1	31	3.8	2.0	1.2	9274	0.25	180	2.8	59
2881	595701	5218966	1.0	52	7.5	90	25	0.12	1.7	0.26	3.1	21	32	3635	32	1.3	23	5.0	1.4	0.7	5635	0.25	111	2.4	30
2882	590990	5210504	10.0	54	7.8	258	24	0.22	4.3	1.39	7.0	23	70	6769	243	1.3	22	18.9	1.8	1.2	6074	0.25	69	1.4	88
2883	590196	5208034	2.0	70	8.2	603	25	0.05	1.9	0.33	2.2	11	31	2541	44	3.2	13	2.3	1.0	0.2	5376	0.25	63	0.7	45
2884	590354	5207624	6.0	65	8.2	171	25	0.27	5.3	1.05	6.8	15	78	7356	108	7.1	24	26.5	1.1	0.8	10761	0.72	65	0.5	94
2885	590164	5206098	4.0	43	7.9	302	25	0.17	2.9	0.71	9.9	30	48	8835	177	1.0	29	7.9	1.1	2.0	3730	0.25	124	0.9	87
2886	592779	5215686	2.0	67	7.5	188	21	0.23	8.3	1.65	3.7	8	110	1908	33	1.7	13	2.6	2.4	2.0	8552	0.25	40	1.3	96
2887	593261	5217366	30.0	13	7.8	109	24	0.20	4.0	0.65	10.2	51	44	20807	635	1.8	33	7.1	1.3	1.5	1050	0.25	326	2.1	91
2888	595085	5217825	2.0	57	7.6	49	22	0.07	1.2	0.65	5.0	16	26	2681	58	1.9	21	1.9	2.3	0.2	4055	0.25	87	2.1	41
2889	594880	5218841	1.0	65	7.0	88	22	0.05	1.5	0.50	3.4	15	29	2576	31	2.4	25	3.0	0.8	0.2	5518	0.25	92	2.4	46
2890	594795	5220043	5.0	68	7.1	38	23	0.16	4.2	0.96	11.7	23	52	6317	128	2.9	40	10.4	0.7	0.2	8033	0.25	111	1.9	98
2891	595589	5220746	8.0	27	7.2	46	23	0.06	2.1	0.37	6.9	26	17	9441	327	3.2	16	3.9	1.0	1.7	1731	0.25	181	3.1	55
2892	594762	5222047	4.0	29	7.2	106	23	0.13	3.9	0.66	8.1	32	42	9970	229	1.2	23	6.1	1.7	2.2	3420	0.25	101	3.2	66
2893	596369	5222499	8.0	28	7.4	93	24	0.12	3.0	0.49	7.7	29	49	9538	228	0.9	20	7.7	1.4	2.1	2433	0.25	126	3.2	58
2894	596808	5223560	2.0	40	7.5	56	23	0.15	7.5	0.62	17.8	35	280	10301	211	1.9	34	4.6	3.6	2.9	6367	0.25	190	4.6	71
2895	597106	5226816	1.0	51	7.2	64	22	0.12	2.0	0.47	2.5	9	82	1273	26	6.5	10	3.2	1.4	0.6	7018	0.25	46	1.3	72
2896	597647	5227534	32.0	33	7.5	98	23	0.32	19.0	1.23	19.6	45	93	27315	2577	5.9	42	12.0	2.8	2.9	2357	0.25	92	5.6	150
2897	598794	5229873	16.0	44	7.6	49	23	0.45	7.9	1.37	22.6	47	64	23345	1630	2.1	33	12.9	INF	INF	3022	0.25	114	5.4	142
2898	599112	5230980	1.0	44	7.3	28	22	0.17	2.7	0.59	4.5	14	28	3123	49	0.8	21	6.0	0.9	1.7	3509	0.25	64	1.0	43
2899	600157	5231197	8.0	54	7.0	23	23	0.28	3.4	1.08	14.3	38	37	10435	333	0.8	21	9.9	1.2	1.7	3606	0.25	183	2.1	69
2900	600410	5231693	1.0	47	6.9	32	22	0.06	3.0	0.65	6.0	21	24	3699	42	0.7	26	5.7	0.7	0.2	4572	0.25	109	1.5	42
2901	599730	5232777	4.0	55	7.0	26	23	0.22	2.5	0.65	7.0	28	41	5637	105	1.0	29	4.2	1.3	2.2	3560	0.25	109	1.8	78
2902	598766	5232893	2.0	69	6.9	31	23	0.18	2.2	0.57	6.0	20	43	3500	45	1.6	27	2.8	0.8	0.7	5221	0.25	83	2.1	71
2903	596929	5231633	20.0	20	7.0	98	23	0.31	14.0	0.87	12.3	59	109	19706	516	1.5	37	9.4	4.0	3.0	1655	0.25	110	6.9	108
2904	595872	5229546	1.0	61	7.2	867	22	0.22	2.2	0.63	6.3	21	72	2597	39	1.7	49	4.9	1.5	1.8	5141	0.25	74	1.3	57
2905	594705	5229497	7.0	58	7.5	123	23	0.18	3.8	0.62	8.8	20	118	2220	37	5.7	61	7.8	2.0	2.1	7244	0.25	56	3.6	75
2906	595026	5230742	2.0	31	6.8	111	22	0.21	3.2	0.69	5.1	31	36	7292	74	0.3	20	13.3	0.8	0.2	1747	0.25	54	2.9	31
2907	594694	5231415	1.0	42	6.6	27	19	0.10	2.0	0.45	3.0	8	22	1687	34	1.1	13	4.4	0.7	1.6	2601	0.25	56	0.9	22
2908	593069	5232389	1.0	48	6.1	17	21	0.09	2.0	0.33	2.0	9	27	2973	68	0.8	12	3.7	0.2	0.2	2552	0.25	64	0.8	18
2909	592257	5231419	1.0	44	6.2	57	23	0.08	4.2	0.42	7.6	33	61	8687	96	1.4	33	5.1	1.6	1.9	7560	0.25	190	2.0	69
2910	591393	5231322	4.0	79	6.6	39	22	0.11	6.5	0.79	5.3	18	47	10952	227	3.8	14	3.5	0.5	0.5	6186	0.25	91	1.8	125
2911	590680	5233028	4.0	44	6.6	41	22	0.14	3.2	0.73	8.3	25	46	6035	148	4.6	18	4.4	1.0	1.9	3729	0.25	81	1.9	76
2912	590837	5232466	9.0	43	6.8	73	24	0.14	2.2	0.71	8.1	26	71	7739	444	7.5	21	3.8	1.1	2.1	8813	0.25	106	2.4	84
2913	590141	5232174	14.0	52	7.1	61	24	0.27	4.3	1.29	9.3	58	76	8803	342	3.4	31	13.3	1.4	2.3	6437	0.25	99	2.3	102
2914	589750	5232600	6.0	72	7.3	91	24	0.10	2.5	0.44	2.5	14	51	2017	53	18.4	9	3.7	INF	INF	8958	0.25	48	1.9	51
2915	588337	5233317	20.0	37	7.4	51	24	0.23	3.9	0.73	7.1	42	56	12457	431	1.6	21	9.3	1.7	2.4	2980	0.25	109	2.0	68
2916	588178	5233020	28.0	44	7.4	50	24	0.25	41.0	0.82	15.9	29	51	154888	4575	2.6	27	48.5	1.7	2.7	4990	1.14	58	1.2	93
2917	588509	5231693	20.0	20	7.5	58	24	0.12	4.8	0.97	13.9	52	60	24257	1198	3.5	40	7.7	2.2	3.4	1512	0.25	164	2.4	105
2918	587723	5230500	7.0	42	7.5	58	24	0.12	2.8	0.65	6.3	32	60	6611	116	2.7	21	5.4	1.7	3.0	4031	0.25	85	2.2	57
2919	587053	5229823	6.0	64	7.4	29	23	0.17	3.4	0.77	5.8	25	48	11326	186	1.4	19	6.1	1.2	2.6	5729	0.25	78	1.1	97
2920	586576	5229324	1.0	NS	7.1	39	21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2921	586711	5230738	2.0	68	7.2	60	24	0.12	4.1	0.62	5.8	28	77	4992	90	3.3	21	3.3	1.5	1.1	7363	0.25	74	3.6	68
2922	586766	5231528	1.0	44	7.2	51	22	0.10	1.7	0.52	2.0	13	48	1799	25	1.6	17	3.0	1.2	1.6	4287	0.25	78	1.3	28
2923	587096	5232055	2.0	89	6.9	30	23	0.01	INF	0.56	2.7	7	19	1458	56	4.9	7	1.2	INF	INF	4107	0.25	42	0.4	90
2924	586936	5232227	1.0	77	7.0	78	22	0.06	1.9	0.49	1.6	9	34	1418	31	15.4	8	1.8	0.5	0.5	8123	0.25	38	1.3	59
2925	586434	5233113	1.0	48	7.2	29	23	0.10	1.4	0.63	4.6	15	57	1845	39	0.9	22	3.3	INF	INF	3710	0.25	71	1.2	45
2926	585665	5232918	3.0	65	6.9	34	23	0.22	3.3	0.84	8.2	27	76	8046	168	1.1	20	5.6	1.4	2.0	6056	0.25	87	1.0	94
2927	585306	5232346	16.0	47	6.9	42	23	0.24	3.1	0.71	10.0	39	85	11234	337	1.2	19	7.6	1.9	2.6	3409	0.25	110	2.0	72
2928	585067	5231308	10.0	45	7.1	46	24	0.24	2.9	0.66	6.4	35	85	6840	219	1.4	18	6.8	1.9	2.5	3756	0.25	98	2.1	73
2929	586108	5230464	1.0	70	7.1	74	22	0.15	4.1	0.29	3.8	17	88	2530	52	3.8	22	2.7	2.4	0.5	7498	0.25	57	3.2	61
2930	585003	5230001	2.0	51	7.2	58	22	0.08	2.5	0.35	4.2	15	68	2569	32	1.5	21	3.4	1.6	0.8	5633	0.25	69	1.7	51
2931	583675	5230356	6.0	55	7.2	20	23	0.07	1.6	0.41	3.7	18	24	4883	98	1.0	16	2.8	0.7	2.0	3615	0.25	68	0.6	42

Site	Easting	Northing	Lake	LOI	pH	Cond	Temp	Ag	As	Cd	Co	Cr	Cu	Fe	Mn	Mo	Ni	Pb	Pd	Pt	S	Sn	Ti	U	Zn
Number	Method ---->		Depth	Grav	YSI	YSI	YSI	ICP-MS	INAA	ICP-MS	ICP-MS	ICP-OES	ICP-OES	ICP-OES	ICP-OES	ICP-MS	ICP-OES	ICP-MS	FA/ICPMS	FA/ICPMS	ICP-OES	ICP-MS	ICP-OES	ICP-MS	ICP-OES
	Detection Limit ---->			0.1	0.01	1	0.01	0.02	0.5	0.050	0.05	4	5	5	1	0.10	5	0.05	0.3	0.3	30	0.50	3	0.05	2
	Units ---->		m	%		µS/cm	°C	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm
	(NAD 83 Zone 17)																								
2932	583230	5230389	2.0	53	6.7	22	23	0.07	1.8	0.53	5.9	23	26	4131	70	0.8	26	5.1	0.8	2.1	3536	0.25	93	1.4	46
2933	582698	5231274	25.0	53	6.9	58	24	0.26	6.8	1.08	8.4	39	58	8866	497	3.2	21	27.7	1.3	1.4	6108	0.25	94	3.3	114
2934	584092	5232335	1.0	63	7.0	72	23	0.10	11.0	0.58	4.7	15	40	2483	51	4.3	19	2.7	1.0	0.6	6227	0.25	77	1.1	77
2935	583873	5233334	31.0	38	7.2	42	23	0.18	1.2	1.02	11.2	46	95	18981	992	3.9	32	12.0	2.4	3.6	3237	0.25	91	3.6	133
2936	582626	5232242	20.0	40	7.2	41	23	0.13	4.7	0.59	8.3	61	73	13968	221	2.5	31	9.6	2.1	3.7	3219	0.25	93	3.3	80
2937	581779	5230100	13.0	42	7.3	49	24	0.20	4.1	1.03	8.5	36	48	10871	671	3.1	24	9.6	1.9	3.2	3080	0.25	83	4.0	130
2938	581366	5229382	2.0	46	7.3	26	23	0.10	2.1	0.41	4.3	20	30	3353	74	0.7	22	6.6	1.0	2.3	3345	0.25	80	0.8	43
2939	580505	5230054	1.0	62	7.0	39	23	0.08	1.7	0.46	3.0	13	40	1234	31	1.4	13	2.3	0.8	0.6	4250	0.25	60	2.1	67
2940	580786	5231287	5.0	64	7.1	77	24	0.14	11.0	0.57	11.6	39	90	22210	251	13.2	19	3.6	INF	INF	10093	0.25	78	7.3	79
2941	580464	5231239	3.0	55	7.3	32	24	0.16	2.8	0.44	5.5	12	48	1870	55	5.3	20	6.3	0.7	0.6	4571	0.25	64	1.2	89
2942	581317	5232678	4.0	59	7.0	34	23	0.03	2.7	0.44	4.5	14	38	2251	48	1.7	20	3.6	1.1	2.3	4153	0.25	66	1.4	54
2943	579362	5231724	22.0	31	7.0	44	23	0.15	10.0	0.90	15.7	47	94	25284	2203	5.4	35	7.1	2.6	3.1	2580	0.25	98	4.1	147
2944	578562	5232959	2.0	54	7.1	31	23	0.09	2.4	0.40	5.0	22	32	3238	59	1.0	24	4.4	0.9	0.6	4111	0.25	70	1.1	48
2945	577824	5231969	3.0	68	7.6	74	24	0.10	1.4	0.35	2.9	16	39	1727	63	9.6	13	1.5	1.4	0.7	7340	0.25	62	1.8	73
2946	578156	5231903	1.0	53	7.7	60	22	0.05	3.7	0.28	5.4	10	39	1491	38	1.5	20	5.3	1.0	2.2	5195	0.25	64	1.0	42
2947	576384	5231754	2.0	54	7.4	41	22	0.14	3.4	0.49	8.2	6	49	2434	82	1.5	12	6.7	0.2	0.2	4685	0.25	47	0.8	70
2948	576655	5231415	23.0	40	7.3	52	23	0.16	9.1	1.01	19.3	42	70	37576	3491	3.2	34	9.3	2.7	2.0	3053	0.25	166	4.2	135
2949	577133	5230757	1.0	49	7.3	73	22	0.09	4.7	0.46	4.0	17	40	2797	42	1.8	21	4.4	1.3	2.0	5930	0.25	76	1.6	68
2950	577828	5229605	1.0	53	7.4	34	23	0.12	3.5	0.47	6.1	14	45	1757	42	1.1	25	4.6	0.2	0.6	3782	0.25	89	0.9	55
2951	578885	5229896	17.0	33	7.2	43	23	0.16	3.1	1.30	11.0	44	80	17949	772	3.7	32	8.4	2.6	3.1	2849	0.25	110	4.3	144
2952	579955	5229682	4.0	29	7.2	48	24	0.09	5.1	0.68	9.5	51	47	19705	299	1.2	33	8.7	1.4	2.1	3300	0.25	219	4.1	106
2953	580935	5228786	8.0	57	7.3	25	24	0.22	2.9	0.61	12.9	22	51	12314	244	3.6	21	11.1	INF	INF	6632	0.25	112	1.1	98
2954	582972	5229327	14.0	50	7.1	49	24	0.24	3.3	1.66	8.2	31	52	8948	139	1.6	31	50.3	1.7	1.4	6850	1.24	103	3.1	135
2955	584193	5228750	4.0	55	7.2	26	23	0.10	1.8	0.62	3.7	13	46	2557	77	0.6	16	3.3	0.2	0.2	3546	0.25	87	0.5	57
2956	586092	5229523	6.0	46	6.9	23	22	0.08	1.3	0.59	2.7	24	31	3219	44	0.5	16	3.2	0.2	0.6	3253	0.25	105	1.4	45
2957	587224	5227758	1.0	65	7.0	84	23	0.08	2.6	0.39	3.2	13	51	2648	46	2.8	14	2.5	1.4	0.5	6488	0.25	64	2.3	65
2958	587666	5228166	1.0	29	7.5	68	23	0.05	1.9	0.22	5.0	25	26	5156	83	0.9	17	2.9	0.9	1.5	2797	0.25	121	1.4	38
2959	587703	5228949	3.0	53	7.4	59	24	0.19	2.9	0.95	7.5	26	52	4373	103	1.7	20	8.3	1.0	0.7	4525	0.25	63	2.6	68
2960	588145	5229507	2.0	51	7.3	29	24	0.10	1.4	0.46	3.9	11	63	1251	30	1.3	21	1.9	0.2	0.2	3528	0.25	72	1.4	40
2961	588034	5228364	2.0	68	7.1	46	24	0.04	2.1	0.58	5.0	20	47	2232	31	1.8	19	2.4	0.9	0.7	4755	0.25	81	2.0	54
2962	588855	5228714	3.0	53	7.2	41	24	0.16	2.4	0.64	6.0	23	48	5723	90	0.7	21	8.4	0.7	0.2	3433	0.25	107	1.3	50
2963	589534	5228982	3.0	42	7.1	49	24	0.16	2.8	0.61	8.8	42	65	11530	218	0.9	30	5.5	1.3	1.9	3583	0.25	178	2.5	73
2964	589098	5230303	1.0	46	7.2	32	24	0.10	2.0	0.38	5.0	17	48	2631	34	0.7	22	4.4	0.8	1.2	4522	0.25	53	1.2	25
2965	591189	5229365	16.0	39	7.2	52	24	0.40	5.7	1.16	15.9	51	95	20001	1013	2.8	29	8.1	2.1	1.6	2597	0.25	183	3.5	133
2966	591325	5230151	3.0	35	7.3	50	24	0.21	3.7	0.70	8.3	34	51	9950	255	1.0	22	6.0	1.9	2.8	3201	0.25	134	2.0	66
2967	592948	5229711	3.0	56	7.3	43	23	0.15	2.6	0.81	6.3	19	51	3400	116	1.3	17	4.5	0.6	1.5	3873	0.25	90	1.2	73
2968	593801	5229913	1.0	44	7.0	21	23	0.05	1.8	0.55	4.1	16	45	1780	52	0.7	23	6.2	INF	INF	3810	0.25	81	1.2	34
2969	593497	5228243	14.0	51	6.8	46	25	0.23	4.4	0.90	6.6	31	53	7130	222	1.3	24	17.8	1.6	1.1	4360	0.25	116	2.1	78
2970	595657	5228091	11.0	58	7.0	79	24	0.19	3.4	0.70	5.1	19	50	11307	590	13.1	18	10.5	0.9	0.9	7804	0.25	82	1.9	92
2971	595703	5228920	13.0	NS	7.3	140	24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2972	596745	5228524	1.0	60	7.6	172	24	0.13	2.3	0.54	2.8	19	85	3121	30	6.2	41	14.3	1.2	0.2	8597	0.25	67	2.3	74
2973	596937	5227570	2.0	59	7.4	167	23	0.17	2.7	0.63	4.3	19	92	3638	51	2.8	37	9.1	1.3	0.8	8397	0.25	64	1.8	65
2974	596372	5226621	5.0	57	7.4	276	24	0.27	4.4	0.99	6.0	19	109	5448	67	56.5	17	8.3	1.6	0.7	11032	0.25	58	3.9	121
2975	596205	5226083	1.0	72	7.3	71	24	0.16	1.9	0.39	3.3	12	62	1743	27	19.6	22	1.6	INF	INF	7374	0.25	59	2.0	60
2976	595528	5224927	3.0	44	6.8	168	24	0.16	7.8	1.76	13.9	23	174	81200	43	9.6	43	14.2	0.8	0.7	30702	0.25	59	2.9	386
2977	594785	5224930	8.0	41	6.9	168	24	0.29	5.7	1.24	9.2	44	71	14380	240	5.0	32	18.7	1.8	2.4	8936	0.25	178	5.7	136
2978	595607	5223568	21.0	40	7.5	168	24	0.53	14.0	1.53	25.0	44	93	50621	1358	12.4	35	39.2	1.6	1.3	8668	1.00	141	3.9	229
2979	594519	5223400	2.0	NS	7.4	75	24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2980	593861	5222039	1.0	58	7.2	64	24	0.20	3.9	0.82	5.6	24	56	7035	182	0.7	20	10.6	1.4	0.5	5821	0.25	99	3.2	55
2981	593461	5220045	1.0	48	7.2	56	24	0.14	2.3	0.92	3.5	12	38	2459	54	1.8	20	2.8	0.2	0.2	5250	0.25	75	1.7	122
2982	593796	5219348	7.0	NS	7.3	50	24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2983	590894	5216262	2.0	76	7.5	277	24	0.23	14.0	1.37	5.3	18	85	4742	126	5.2	30	2.0	1.3	0.5	9738	0.25	70	1.0	122
2984	590441	5214110	4.0	46	7.9	250	24	0.22	7.2	0.87	8.6	31	54	12267	348	1.3	22	6.3	1.9	2.5	7643	0.25	177	1.8	89
2985	590155	5214859	2.0	73	8.0	151	25	0.15	5.3	0.63	5.7	14	75	2958	79	2.9	19	2.6	1.1	0.9	9046	0.25	71	1.1	63
2986	590063	5216610	1.0	56	7.8	133	24	0.86	3.[illegible]	2.53	4.4	30	564	5941	84	2.4	111	2.3	3.1	1.0	11220	0.25	86	1.3	201
2987	590229	5217486	4.0	77	7.6	91	24	0.17	2.6	0.96	4.1	11	69	1780	63	2.7	33	1.8	2.2	0.2	7815	0.25	58	1.0	69
2988	590789	5218633	2.0	NS	7.5	70	24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2989	591880	5220592	2.0	61	7.5	44	25	0.12	2.1	0.50	7.0	13	57	2039	41	1.3	24	3.4	0.7	0.2	4537	0.25	79	1.5	66
2990	594074	5223641	4.0	70	7.4	36	25	0.28	4.0	1.31	9.5	30	97	4045	147	3.2	25	12.0	1.7	1.0	7056	0.25	110	6.3	174
2991	594821	5224040	5.0	29	7.4	169	25	0.23	6.1	0.93	10.6	41	55	17585	501	5.3	27	14.1	1.5	2.2	4110	0.25	148	4.3	143
2992	593664	5224632	1.0	67	7.6	47	24	0.12	2.2	0.66	4.5	14	44	4520	51	3.4	10	2.9	0.2	0.2	7269	0.25	58	4.4	69
2993	593939	5225395	2.0	59	7.3	31	24	0.16	2.5	0.79	4.2	18	54	2941	86	1.8	23	10.1	0.2	0.2	5640	0.25	66	2.1	104
2994	593753	5226779	6.0	59	7.1	36	25	0.20	3.7	0.68	9.3	30	59	5015	213	9.2	20	7.0	0.9	0.2	5444	0.25	88	4.1	77
2995	593329	5227223	1.0	59	6.8	38	24	0.29	2.8	0.54	8.5	15	70	3307	48	1.4	20	8.7	0.7	0.2	5012	0.25	69	3.8	57
2996	592886	5227806	7.0	53	6.8	43	25	0.22	4.2	0.80	7.2	29	67	7498	196	2.2	21	10.8	1.4	1.0	4481	0.25	100	2.5	99
2997	591357	5228225	11.0	26	7.1	51	25	0.27	4.3	0.89	8.4	34	41	11111	226	0.5	26	25.0	1.3	2.1	2842	0.74	206	1.6	79
2998	589105	5228307	1.0	63	7.2	54	24	0.10	2.6	0.74	7.5	29	58	6476	94	1.3	32	4.6	0.9	0.7	5746	0.25	158	2.5	60
2999	588554	5227908	1.0	61	7.2	48	25	0.12	2.2	0.61	6.9	28	46	5674	129	1.0	24	3.7	0.8	0.6	4508	0.25	147	2.4	59
3000	588236	5227178	3.0	19	7.0	59	24	0.05	2.4	0.14	6.3	29	25	8913	218	0.6	18	4.2	0.7	1.6	2583	0.25	241	1.3	45
3001	587261	5226974	1.0	36	7.1	62	24	0.21	4.0	0.60	7.2	33	44	7130	137	0.3	23	5.6	1.1	0.6	2910	0.25	109	2.9	47
3002	585728	5227904	1.0	39	7.1	45	25	0.09	2.2	1.01	6.8	20	36	4394	116	0.3	26	12.9	1.1	1.6	3945	0.25	98	2.6	56
3003	584475	5227788	1.0	48	7.1	54	25	0.12	7.6	1.66	13.3	36	50	13532	582	1.1	33	19.6	1.5	1.0	4633	0.25	97	3.4	150
3004	582745	5228670	6.0	38	7.3	49	24	0.13	7.3	1.10	11.1	34	48	14027	329	4.1	20	6.1	1.6	0.5	6242	0.25	97	2.6	127
3005	582482	5228444	1.0	58	7.3	27	25	0.05	1.6	0.61	8.4	20	47	1991	55	2.0	31	2.9	0.6	0.2	4329	0.25	99	1.2	61
3006	582052	5227608	4.0	44	7.1	37	25	0.14	3.9	0.89	7.4	32	42	7533	190	1.4	29	15.3	0.8	0.6	5641	0.25	129	1.3	91
3007	579811	5227037	4.0	61	7.1	37	25	0.09	2.8	0.92	6.6	14	42	3530	88	1.2	19	8.1	0.2	0.2	5665	0.25	81	0.6	95
3008	578363	5227704	9.0	30	7.2	45	24	0.10	4.8	0.74	9.0	33	40	13489	286	1.7	22	10.2	1.4	2.0	2891	0.25	180	2.2	83
3009	577406	5229261	2.0	55	7.2	48	24	0.12	3.6	0.93	7.2	26	51	4123	112	1.4	31	6.2	0.7	0.2	4352	0.25	119	1.6	78
3010	577094	5229825	5.0	61	7.3	49	24	0.18	7.5	0.87	9.3	18	49	4494	123	1.7	21	11.4	0.2	0.2	6010	0.25	106	0.9	98
3011	576381	5229677	3.0	65	7.2	55	24	0.05	6.5	0.52	4.8	14	35	2125	52	1.4	25	3.8	0.6	0.2	5534	0.25	85	1.3	61
3012	576250	5230130	2.0	68	7.2	38	24	0.04	4.8	0.72	15.2	29	43	6676	145	1.6	36	5.8	0.8	0.2	4762	0.25	148	1.4	80
3013	574903	5230495	19.0	37	7.3	51	24	0.17	8.4	1.43	8.5	37	69	10158	323	2.0	32	44.8	2.5	2.7	5338	0.92	104	2.2	102
3014	573988	5229319	11.0	NS	7.3	39	25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3015	574083	5230320	8.0	63	7.3	30	25	0.15	4.7	1.08	7.9	19	42	4471	87	2.1	23	20.1	1.0	0.9	6612	0.25	101	1.2	88
3016	574017	5231325	9.0	47	7.2	55	25	0.20	82.9	1.78	21.7	26	61	12793	375	2.7	42	68.4	INF	INF	12109	1.77	97	1.6	102
3017	574660	5231827	8.0	20	7.4	50	24	0.03	5.0	0.46	5.7	25	24	11026	275	1.3	18	4.3	1.0	1.5	1983	0.25	125	1.7	51
3018	574590	5233016	13.0	NS	7.4	47	25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3019	573948	5232635	8.0	59	7.4	34	25	0.09	3.7	0.69	5.7	20	51	5660	175	1.6	19	10.8	1.4	2.3	5638	0.25	78	1.0	68
3020	573570	5232885	5.0	53	7.2	31	25	0.13	6.0	1.11	12.5	16	53	6005	195	1.7	15	5.2	0.8	2.2	5203	0.25	89	1.0	109
3021	572589	5231796	2.0	42	7.0	38	25	0.06	11.0	0.57	11.1	16	39	3504	71	1.5	13	7.9	1.2	1.8	5686	0.25	75	2.5	78
3022	573249	5231862	3.0	54	7.1	35	25	0.12	7.2	1.10	8.9	19	58	7297	199	1.4	17	5.4	0.8	0.2	4833	0.25	115	1.5	108
3023	573261	5231016	1.0	57	6.9	29	24	0.05	6.0	0.76	6.1	15	44	4114	83	2.5	19	10.7	1.6	1.9	5909	0.25	73	2.2	50
3024	572862	5229941	1.0	49	6.9	50	25	0.03	2.3	0.71	3.1	14	43	3033	84	0.7	16	6.4	1.2	1.6	4434	0.25	83	2.7	29
3025	571555	5230726	8.0	59	7.2	51	25	0.11	5.8	0.97	4.1	23	24	9783	433	1.4	14	11.7	1.1	2.5	5272	0.25	100	0.6	113
3026	572122	5231089	7.0	59	7.5	66	25	0.07	5.5	0.55	4.7	16	37	3839	84	2.2	13	8.2	1.7	1.3	7953	0.25	56	1.4	60
3027	571517	5231550	10.0	NS	7.6	59	25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Site	Easting	Northing	Lake	LOI	pH	Cond	Temp	Ag	As	Cd	Co	Cr	Cu	Fe	Mn	Mo	Ni	Pb	Pd	Pt	S	Sn	Ti	U	Zn
Number	Method ------>		Depth	Grav	YSI	YSI	YSI	ICP-MS	INAA	ICP-MS	ICP-MS	ICP-OES	ICP-OES	ICP-OES	ICP-OES	ICP-MS	ICP-OES	ICP-MS	FAICPMS	FAICPMS	ICP-OES	ICP-MS	ICP-OES	ICP-MS	ICP-OES
	Detection Limit ---->			0.1	0.01	1	0.01	0.02	0.5	0.050	0.05	4	5	5	1	0.10	5	0.05	0.3	0.3	30	0.50	3	0.05	2
	Units ---->		m	%		µS/cm	°C	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm
	(NAD 83 Zone 17)																								
3028	570904	5230662	4.0	38	7.4	62	25	0.12	22.0	0.58	17.6	47	84	24010	327	3.7	28	6.8	2.1	1.4	4689	0.25	155	4.4	103
3029	570438	5230790	6.0	65	7.2	32	25	0.12	1.8	0.58	2.3	9	37	3560	110	2.0	14	4.8	0.2	0.2	5145	0.25	51	0.9	74
3030	571039	5232431	3.0	53	7.0	24	25	0.06	3.8	0.80	5.9	29	41	4827	103	1.5	17	5.7	1.2	0.6	3864	0.25	71	1.4	112
3031	571259	5233133	8.0	41	6.9	55	24	0.32	56.8	0.93	51.7	44	127	22054	660	3.9	23	15.1	3.6	2.1	7659	0.25	111	5.6	104
3032	568541	5231490	1.0	40	7.0	62	25	0.07	3.8	0.60	3.8	13	29	4788	91	1.3	14	6.6	0.7	0.2	4463	0.25	85	0.9	47
3033	567730	5231961	7.0	NS	7.1	46	25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3034	567357	5230854	8.0	NS	7.2	44	25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3035	565235	5233234	NM	26	7.2	41	25	0.06	5.7	0.63	8.8	53	43	15906	347	1.7	32	8.8	2.6	2.8	3806	0.25	198	2.3	95
3036	564228	5233135	6.0	18	7.2	45	25	0.04	6.5	0.41	12.7	61	41	31504	656	1.1	33	5.8	1.9	1.9	1546	0.25	401	2.5	91
3037	563791	5232768	2.0	35	7.2	45	25	0.02	6.1	0.64	5.5	27	42	8224	314	3.0	19	11.6	1.3	1.3	3971	0.25	76	1.7	61
3038	562508	5232389	1.0	39	7.3	37	25	0.06	10.0	0.85	6.9	24	39	5327	120	1.8	28	19.7	2.1	2.8	3753	0.56	83	2.1	53
3039	561676	5232218	3.0	13	7.2	36	25	0.03	5.7	0.51	9.9	39	27	15339	334	2.4	28	10.6	1.2	1.7	3412	0.25	264	1.5	62
3040	562346	5230008	7.0	NS	7.2	48	25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3041	563559	5229105	5.0	22	7.3	44	25	0.09	7.4	0.55	10.3	44	35	20984	516	1.3	28	12.3	1.8	2.4	2173	0.25	184	1.8	80
3042	564084	5226446	6.0	12	7.3	55	25	0.05	6.9	0.19	12.3	42	27	19921	366	0.8	26	7.7	0.2	0.4	1056	0.25	318	1.9	64
3043	562747	5224598	23.0	NS	7.4	38	24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3044	564535	5222668	36.0	NS	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3045	565615	5222549	8.0	NS	7.3	46	24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3046	565304	5222211	6.0	75	6.9	23	25	0.08	7.2	0.90	7.6	12	47	11062	325	1.3	24	24.2	1.3	1.3	6498	0.54	55	0.6	96
3047	564417	5220993	37.0	17	6.9	37	23	0.03	7.5	0.57	16.7	44	44	19958	761	1.7	31	9.1	1.7	1.4	1843	0.25	236	2.4	83
3048	565625	5220560	12.0	43	6.6	NM	24	0.04	3.5	0.57	7.0	39	38	10150	262	1.6	23	9.2	1.3	1.5	3596	0.25	96	1.5	52
3049	565972	5220086	6.0	70	6.8	26	25	0.03	2.5	0.59	3.7	22	52	6881	129	1.7	16	3.7	0.9	0.7	5025	0.25	73	1.5	96
3050	565848	5219727	17.0	NS	6.8	34	25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3051	567569	5219127	1.0	69	6.8	46	25	0.01	3.6	0.67	6.7	24	53	4252	57	2.7	26	3.6	INF	INF	7179	0.25	123	2.5	72
3052	567775	5218812	9.0	NS	6.9	40	25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3053	568398	5219545	21.0	17	7.1	64	24	0.01	4.8	0.25	7.4	46	34	16787	222	1.0	26	9.2	0.9	1.4	1744	0.25	336	2.0	64
3054	567104	5220834	6.0	NS	7.4	65	24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3055	566688	5223576	12.0	NS	7.5	65	24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3056	567742	5223341	8.0	NS	6.4	29	24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3057	567764	5224172	10.0	NS	6.4	64	24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3058	568536	5224720	15.0	NS	7.1	52	24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3059	567045	5225620	1.0	38	7.2	51	25	0.07	3.8	0.39	11.9	19	63	6165	86	2.1	20	6.8	1.4	2.0	6153	0.25	119	2.8	40
3060	566486	5225832	21.0	NS	7.3	65	24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3061	565206	5227777	21.0	NS	7.4	65	24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3062	566640	5228486	2.0	NS	7.5	47	24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3063	567728	5226910	1.0	42	7.4	28	25	0.06	2.5	0.28	3.6	14	38	2913	38	0.6	11	7.4	0.6	0.2	3295	0.25	82	1.6	15
3064	568742	5227889	7.0	48	6.9	21	25	0.21	5.1	1.14	10.1	32	49	12060	116	1.5	28	23.0	1.5	2.7	6804	0.61	112	1.3	88
3065	569089	5227654	3.0	42	6.7	22	25	0.12	4.5	0.75	12.8	40	47	12769	247	2.0	24	5.4	1.1	2.5	5428	0.25	107	1.6	105
3066	569517	5227087	1.0	41	6.5	22	25	0.18	4.1	0.55	10.6	30	57	5577	55	1.6	22	6.1	1.1	1.9	4365	0.25	161	2.0	67
3067	569107	5228874	5.0	63	6.3	19	25	0.10	2.3	0.49	6.1	19	24	4048	99	0.8	18	4.5	0.2	0.2	3685	0.25	67	0.6	56
3068	569547	5228621	6.0	59	6.2	22	25	0.16	2.9	0.77	7.2	29	48	3494	63	1.4	25	5.9	1.1	2.3	4678	0.25	110	1.2	65
3069	569790	5229335	6.0	47	6.0	17	25	0.12	2.6	0.61	6.7	30	33	5675	137	0.7	19	6.9	0.5	2.5	3364	0.25	124	0.9	48
3070	571836	5229076	1.0	43	6.1	75	24	0.04	14.0	0.48	4.3	24	21	11489	118	3.9	13	4.5	1.2	0.8	9038	0.25	104	2.3	58
3071	571699	5228394	1.0	40	6.7	66	25	0.10	4.5	0.83	8.3	20	32	7006	315	1.0	19	11.7	1.1	0.7	4089	0.25	125	2.3	62
3072	572925	5227844	1.0	NS	7.0	40	24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3073	573856	5228411	17.0	54	7.1	37	25	0.25	6.9	1.40	12.8	26	52	12886	618	1.9	25	35.8	1.2	2.4	5817	0.70	107	1.8	105
3074	574813	5228878	31.0	NS	7.1	37	25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3075	575393	5228210	1.0	59	7.1	37	25	0.12	3.3	0.75	4.3	13	37	1755	36	1.2	28	15.5	0.9	1.6	4838	0.25	78	1.4	70
3076	575506	5226690	6.0	70	6.9	31	25	0.09	1.9	0.69	2.2	8	34	3037	101	1.8	11	2.4	0.2	0.2	3965	0.25	60	1.4	38
3077	573399	5227305	2.0	65	6.8	33	25	0.09	2.5	0.73	6.8	19	33	5668	74	1.6	22	6.8	0.5	0.5	5438	0.25	87	2.3	91
3078	573470	5226542	1.0	NS	6.7	42	25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3079	574557	5226393	1.0	48	6.8	47	25	0.06	1.9	0.42	2.6	9	22	1264	36	1.0	18	3.4	0.2	0.2	3481	0.25	59	1.6	34
3080	575212	5225636	3.0	51	7.0	50	24	0.17	5.1	1.12	11.1	39	47	9481	359	1.8	34	10.7	1.7	2.0	4882	0.25	156	4.8	128
3081	574133	5225125	1.0	62	7.1	46	25	0.12	2.9	0.95	9.9	22	32	5050	153	1.8	32	4.2	0.8	0.2	5734	0.25	109	3.9	85
3082	572871	5224816	13.0	37	7.2	49	25	0.26	3.7	0.78	6.4	42	56	9199	211	1.7	25	13.7	1.5	2.0	3701	0.25	166	3.1	87
3083	573028	5225623	8.0	28	7.3	48	24	0.16	5.1	0.73	8.7	45	46	12960	307	1.0	33	14.6	1.6	1.9	2634	0.25	209	3.3	104
3084	571671	5225347	2.0	53	7.2	51	24	0.24	3.6	0.68	4.9	24	92	5028	85	5.4	21	4.2	1.9	0.6	5741	0.25	154	1.5	108
3085	571414	5225302	2.0	67	7.6	74	26	0.18	3.1	0.37	2.7	12	85	2337	45	2.9	11	3.7	2.5	0.8	7655	0.25	57	2.0	61
3086	571191	5225772	2.0	61	7.7	29	25	0.26	10.0	1.43	5.0	15	50	7436	244	1.9	25	47.5	INF	INF	9013	1.19	103	0.8	98
3087	571284	5224229	3.0	NS	7.4	50	24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3088	570140	5223049	41.0	NS	7.3	NM	24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3089	569753	5220010	15.0	NS	7.5	64	24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3090	569191	5218406	7.0	NS	7.6	37	25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3091	568487	5217342	3.0	68	7.4	40	25	0.08	4.7	0.59	7.2	18	41	5636	176	3.0	14	5.2	INF	INF	6102	0.25	73	1.5	76
3092	588809	5208913	5.0	34	7.3	119	22	0.23	3.0	0.78	13.5	41	33	18096	380	2.1	30	9.4	1.1	1.9	9955	0.25	179	2.5	91
3093	590170	5209961	1.0	62	7.4	74	22	0.10	1.7	0.44	5.4	11	51	1896	57	10.2	19	1.9	0.2	0.2	6176	0.25	55	1.5	51
3094	590401	5210506	1.0	NS	7.0	65	22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3095	588398	5213380	6.0	NS	7.5	727	22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3096	588592	5214969	2.0	80	7.8	172	23	0.09	1.7	0.50	2.7	9	35	1672	120	1.5	9	1.3	0.2	0.2	6694	0.25	41	0.7	55
3097	588510	5215542	2.0	76	7.9	541	23	0.17	INF	0.59	5.8	13	43	10036	348	2.9	24	18.3	INF	INF	20726	0.58	42	0.4	56
3098	588073	5215563	2.0	72	8.0	923	23	0.19	16.0	1.12	8.4	30	74	6709	265	9.3	41	7.9	INF	INF	16867	0.25	56	1.2	106
3099	588334	5216368	1.0	49	8.2	232	22	0.09	6.2	0.39	2.3	10	32	2095	40	2.0	19	3.1	0.6	0.2	6428	0.25	53	1.6	47
3100	589408	5216030	1.0	39	7.8	89	21	0.20	5.3	0.74	8.1	35	39	11341	592	0.7	24	12.3	1.1	1.7	4074	0.25	126	1.2	57
3101	589560	5217289	6.0	37	7.7	127	23	0.26	8.7	1.07	9.5	40	52	14535	452	1.0	34	14.1	2.1	2.5	6274	0.25	157	1.6	115
3102	588933	5217128	3.0	51	7.9	119	23	0.18	3.7	0.98	7.4	29	42	7186	310	0.8	30	4.9	1.8	2.4	5213	0.25	89	1.7	76
3103	588999	5218903	12.0	20	7.9	54	23	0.16	2.6	0.65	10.8	45	38	22050	922	2.1	35	5.7	1.3	1.7	1352	0.25	203	1.6	114
3104	590473	5220975	34.0	NS	7.7	51	24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3105	592785	5222924	3.0	52	7.5	48	23	0.30	4.5	0.70	8.2	24	103	5415	62	2.0	21	9.2	1.5	0.6	5364	0.25	85	2.8	78
3106	591674	5223477	25.0	NS	7.5	55	24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3107	590623	5224233	1.0	44	7.4	56	22	0.12	1.7	0.35	2.3	12	40	1857	29	1.9	18	2.7	0.2	0.2	4101	0.25	71	4.1	39
3108	592736	5225124	1.0	40	7.1	55	22	0.19	1.8	0.38	2.4	12	55	1804	24	4.8	18	5.3	INF	INF	4961	0.25	52	2.7	45
3109	592067	5225400	1.0	68	7.2	61	22	0.14	3.2	0.62	4.3	16	52	1881	36	3.4	20	2.4	INF	INF	5055	0.25	85	3.0	61
3110	591753	5225569	3.0	67	7.3	44	22	0.09	2.4	0.54	5.3	12	37	2193	75	1.7	21	5.8	0.2	0.2	5046	0.25	72	1.3	68
3111	591252	5226676	1.0	52	7.1	52	22	0.12	2.3	0.59	5.2	18	50	3701	71	2.5	23	5.3	1.0	1.8	4955	0.25	107	2.9	64
3112	590465	5226438	4.0	33	7.3	68	22	0.19	2.1	0.55	8.0	37	35	12016	218	0.8	24	8.2	1.1	1.7	2784	0.25	184	2.6	69
3113	589831	5226437	5.0	32	7.4	54	23	0.20	1.7	0.42	6.8	33	39	11202	185	0.8	22	5.5	0.9	1.8	2560	0.25	134	1.9	53
3114	589330	5225900	18.0	NS	7.4	51	24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3115	588796	5225628	22.0	26	7.5	51	24	0.27	7.1	0.69	27.8	49	54	53159	5564	3.3	36	9.3	1.5	2.1	1393	0.25	197	2.3	118
3116	588157	5226074	10.0	25	7.5	51	23	0.20	3.5	0.25	9.5	39	38	15950	317	0.8	22	6.4	1.1	1.7	1797	0.25	181	1.7	62
3117	585430	5225990	1.0	NS	7.0	32	22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3118	585031	5225864	1.0	46	6.8	32	22	0.10	2.5	0.49	3.6	16	37	3136	59	0.3	17	7.9	1.1	1.7	3948	0.25	83	2.0	22
3119	584753	5226559	2.0	50	6.8	32	22	0.09	2.8	0.34	3.7	20	33	2200	24	1.5	17	4.4	1.1	1.7	4287	0.25	77	3.4	37
3120	583695	5226828	3.0	58	6.9	36	23	0.14	2.6	0.74	5.9	18	61	2187	39	2.8	20	4.4	4.3	1.5	5158	0.25	80	2.2	94
3121	582801	5226798	19.0	44	7.2	45	23	0.21	5.5	0.95	7.7	37	50	11263	419	1.8	23	19.7	1.4	1.1	3796	0.25	135	2.1	94
3122	582466	5225941	17.0	45	7.2	41	23	0.38	30.0	1.80	21.1	36	61	32622	1140	4.1	44	94.8	2.2	1.4	11732	2.69	178	1.9	140
3123	582160	5226227	9.0	55	7.3	47	24	0.16	4.2	0.78	6.9	32	45	10311	439	3.2	27	19.8	1.2	1.1	6177	0.50	131	2.3	87

Site	Easting	Northing	Lake	LOI	pH	Cond	Temp	Ag	As	Cd	Co	Cr	Cu	Fe	Mn	Mo	Ni	Pb	Pd	Pt	S	Sn	Ti	U	Zn
Number	Method ——>		Depth	Grav.	YSI	YSI	YSI	ICP-MS	INAA	ICP-MS	ICP-MS	ICP-OES	ICP-OES	ICP-OES	ICP-OES	ICP-MS	ICP-OES	ICP-MS	FAICPMS	FAICPMS	ICP-OES	ICP-MS	ICP-OES	ICP-MS	ICP-OES
	Detection Limit ——>			0.1	0.01	1	0.01	0.02	0.5	0.050	0.05	4	5	5	1	0.10	5	0.05	0.3	0.3	30	0.50	3	0.05	2
	Units ——>		m	%		µS/cm	°C	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm
	(NAD 83 Zone 17)																								
3124	580757	5226366	18.0	53	7.3	45	23	0.31	11.0	1.03	68.7	38	56	44074	1654	3.1	29	33.2	1.9	3.0	7928	0.75	185	1.8	116
3125	579601	5226199	2.0	73	7.3	44	23	0.05	3.1	0.50	8.2	20	51	4820	78	2.3	23	4.0	0.9	0.8	6831	0.25	90	1.7	62
3126	579246	5225968	12.0	58	7.3	38	23	0.22	6.8	1.01	14.3	34	67	13415	567	2.9	24	24.6	1.8	3.6	7648	0.67	119	1.4	84
3127	577394	5226365	12.0	36	7.3	40	23	0.14	4.7	0.63	7.0	44	57	12162	195	1.8	23	7.5	1.4	1.3	2833	0.25	107	3.6	80
3128	575932	5226845	2.0	NS	7.1	32	21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3129	576198	5225917	4.0	45	7.0	45	23	0.15	3.7	0.84	5.6	30	36	7588	225	1.1	22	11.5	1.2	2.2	4223	0.25	118	2.9	82
3130	576574	5225549	1.0	NS	7.1	39	22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3131	576883	5225205	8.0	45	7.0	40	23	0.12	9.4	1.41	11.1	44	83	10206	466	2.6	35	29.6	2.8	1.9	7893	0.25	113	4.7	126
3132	577266	5225362	6.0	41	7.0	41	23	0.12	6.0	1.16	8.0	40	68	8641	318	2.2	29	20.7	2.2	2.8	5541	0.25	119	3.9	90
3133	577953	5225090	1.0	52	7.0	41	21	0.05	2.1	0.42	3.1	7	30	1133	25	2.5	23	5.8	0.2	0.2	4253	0.25	50	1.0	50
3134	578783	5225193	6.0	61	6.9	23	22	0.12	2.5	0.56	5.2	20	51	3354	62	0.9	21	4.6	1.1	2.4	4556	0.25	87	0.7	60
3135	579054	5224917	2.0	68	6.8	28	23	0.06	2.1	0.61	12.8	26	61	3297	59	2.4	39	2.5	INF	INF	5442	0.25	110	2.1	98
3136	578646	5224593	11.0	59	6.8	28	23	0.16	4.1	1.05	10.3	24	58	6201	214	1.7	36	21.6	1.1	5.9	7251	0.25	115	2.0	91
3137	579285	5224283	2.0	63	6.8	28	23	0.09	2.7	0.60	8.7	20	45	3232	62	1.6	29	4.9	0.9	0.8	4985	0.25	106	1.5	39
3138	580332	5224714	2.0	39	6.8	38	23	0.18	4.4	0.67	11.3	35	53	8881	326	2.5	25	8.7	1.5	2.0	4656	0.25	145	1.7	91
3139	581853	5225188	1.0	45	6.8	32	22	0.13	3.2	0.68	4.8	15	52	2679	43	2.4	23	11.6	1.2	1.9	5462	0.25	73	1.3	47
3140	582475	5225009	1.0	60	6.7	31	22	0.11	2.2	0.47	2.1	9	30	1624	29	4.6	20	4.6	0.7	1.5	3813	0.25	66	1.2	27
3141	584549	5224726	2.0	69	6.8	27	23	0.06	2.2	0.57	4.1	10	33	1629	47	1.7	23	2.3	0.2	0.2	4310	0.25	62	0.8	57
3142	585932	5224084	2.0	55	6.7	37	22	0.10	2.1	0.67	4.4	15	42	2559	56	1.3	23	2.9	0.9	0.2	3734	0.25	80	1.3	56
3143	586901	5223800	4.0	70	6.7	31	21	0.16	3.8	1.60	3.1	10	55	4611	137	1.7	23	15.0	1.4	0.9	7477	0.25	64	0.8	216
3144	587299	5223348	8.0	50	6.7	38	23	0.21	2.2	0.67	9.4	36	63	9276	243	1.4	26	6.9	2.2	1.5	4208	0.25	167	1.4	82
3145	588215	5223287	3.0	62	6.8	29	22	0.13	2.2	0.99	2.8	18	46	3564	76	1.0	20	5.4	1.5	2.6	5012	0.25	69	0.6	135
3146	588659	5224022	5.0	63	6.7	23	23	0.09	2.6	0.58	8.0	22	61	3312	57	1.2	28	5.3	1.8	1.2	4934	0.25	97	0.9	86
3147	589493	5223606	9.0	17	6.7	47	23	0.12	2.3	0.40	13.0	47	28	21581	600	1.1	32	5.7	1.0	1.2	1089	0.25	298	1.7	92
3148	588895	5222791	11.0	20	7.0	52	23	0.11	2.0	0.36	6.8	38	32	12426	204	0.5	22	5.5	1.1	1.8	1476	0.25	199	1.7	57
3149	588609	5221339	3.0	71	7.1	24	23	0.06	2.8	0.82	7.2	28	58	2752	31	1.0	36	4.6	4.1	2.5	4586	0.25	84	0.6	69
3150	587933	5220450	10.0	23	6.9	50	24	0.20	3.3	0.81	11.8	49	45	20251	714	1.9	34	5.6	1.6	2.1	1531	0.25	197	2.1	113
3151	587572	5219498	13.0	32	7.2	51	23	0.22	5.2	1.14	17.7	45	54	35771	3030	3.8	41	7.9	1.8	2.3	1849	0.25	160	2.3	154
3152	586675	5219397	1.0	58	7.3	57	23	0.15	2.9	0.58	6.2	19	68	3033	52	2.1	31	4.1	1.7	1.1	5723	0.25	84	1.3	73
3153	585854	5217987	1.0	65	7.5	55	22	0.07	3.2	0.49	3.0	20	44	3829	44	2.5	18	2.1	1.5	0.5	5883	0.25	87	1.1	68
3154	586249	5216896	1.0	77	7.7	85	23	0.04	1.9	0.54	1.8	11	26	2244	55	2.3	10	1.2	0.2	0.2	5280	0.25	55	0.9	61
3155	586945	5210280	27.0	NS	7.7	100	23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3156	585179	5206930	6.0	52	7.6	97	23	0.21	3.7	0.95	7.0	34	46	8060	206	2.2	26	12.5	1.4	1.2	5790	0.25	113	2.6	83
3157	584790	5206399	10.0	64	7.5	46	24	0.24	13.0	1.53	8.0	25	53	13362	282	2.6	37	53.5	2.2	0.5	11672	0.99	105	1.9	128
3158	585536	5206025	1.0	NS	7.2	89	23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3159	585768	5205607	4.0	66	7.3	94	24	0.16	4.6	0.69	5.7	26	60	4490	70	2.6	35	15.6	1.3	1.3	6527	0.25	100	2.3	78
3160	585741	5204851	1.0	62	7.3	96	23	0.10	3.0	0.62	3.0	22	54	3698	47	2.9	31	4.1	1.2	0.8	6919	0.25	104	3.2	60
3161	584985	5204678	1.0	72	7.2	42	23	0.10	2.9	0.40	2.6	11	37	1372	29	2.1	18	1.8	0.8	0.2	4223	0.25	53	1.5	48
3162	585532	5203628	14.0	44	7.5	71	24	0.30	5.3	1.04	9.0	43	59	13828	535	2.1	29	14.7	1.4	1.4	5221	0.25	167	2.8	109
3163	587830	5202536	13.0	41	7.5	71	24	0.31	5.7	1.04	8.6	43	68	13397	308	1.0	39	33.0	2.2	3.0	6528	0.80	165	2.9	112
3164	587119	5201372	14.0	40	7.4	50	24	0.31	7.9	1.52	11.4	36	70	16477	512	1.4	46	52.1	2.4	2.7	9195	1.28	203	2.8	133
3165	588252	5200252	7.0	37	7.4	51	23	0.20	3.5	0.67	9.2	49	61	14528	274	1.0	35	8.3	1.7	2.5	4041	0.25	211	2.0	93
3166	589964	5198357	8.0	41	7.5	52	24	0.30	4.9	1.01	8.3	46	57	13679	216	0.6	38	25.9	1.6	2.7	4953	0.62	181	3.6	99
3167	591097	5197225	7.0	40	7.5	52	23	0.26	2.4	0.77	8.2	42	46	12058	225	0.6	28	9.0	1.0	1.9	3243	0.25	171	2.7	79
3168	592250	5196036	9.0	48	7.5	48	23	0.36	6.0	1.41	7.3	39	63	11529	201	0.6	32	28.9	1.3	1.4	5586	0.59	137	2.6	103
3169	591900	5194343	12.0	49	7.4	47	23	0.45	11.0	1.83	13.8	34	66	18333	408	1.0	43	66.4	2.2	2.1	9983	1.47	143	1.6	152
3170	593038	5194348	8.0	23	7.5	53	24	0.12	4.8	0.63	8.9	42	33	14405	287	0.9	27	8.9	1.2	2.1	3031	0.25	170	2.2	96
3171	584586	5216848	1.0	53	7.5	89	22	0.10	2.6	0.44	3.4	12	46	2130	36	1.3	22	2.9	1.2	1.8	5924	0.25	57	1.0	43
3172	584079	5218555	11.0	54	7.7	50	23	0.19	2.5	0.73	6.5	23	47	6005	251	1.8	16	5.4	1.5	2.5	4212	0.25	118	4.4	78
3173	585855	5220258	4.0	NS	7.3	52	22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3174	587481	5220947	10.0	63	7.1	27	24	0.52	4.7	0.90	25.8	38	129	15724	262	1.5	26	11.1	1.5	2.4	8107	0.25	151	1.2	131
3175	587623	5222259	1.0	53	6.9	34	22	0.08	2.3	0.46	3.5	13	31	2559	37	0.6	18	6.2	1.4	1.0	4122	0.25	78	0.7	38
3176	586247	5222672	6.0	58	NM	NM	NM	0.14	2.3	0.62	2.2	13	36	4264	57	1.3	15	6.5	1.2	1.8	3730	0.25	73	0.6	48
3177	585683	5222604	8.0	60	6.6	25	23	0.14	1.9	0.60	2.1	10	36	3129	52	1.3	14	3.8	0.8	0.6	3993	0.25	68	0.6	40
3178	583993	5222738	1.0	66	6.5	33	23	0.13	2.5	0.81	8.7	23	61	3045	42	1.8	38	4.4	1.8	1.0	5674	0.25	102	1.5	86
3179	583426	5224076	4.0	43	6.7	30	24	0.16	2.3	0.67	7.1	30	48	6725	145	1.3	24	6.7	1.6	2.3	3043	0.25	148	1.2	58
3180	582616	5223215	2.0	53	6.7	24	23	0.11	5.7	0.68	12.4	24	49	5412	84	1.1	31	6.5	1.3	1.8	4781	0.25	106	0.9	69
3181	582027	5222792	1.0	67	6.6	38	23	0.07	1.8	0.37	6.5	18	29	3709	63	1.8	25	2.9	0.2	0.2	5599	0.25	121	1.3	64
3182	582104	5223252	2.0	64	6.8	29	23	0.11	3.6	0.95	8.0	14	48	2921	49	3.2	37	8.5	0.2	0.2	5231	0.25	100	1.7	76
3183	581839	5224093	4.0	65	6.8	22	24	0.13	2.9	0.88	6.6	20	48	5121	145	2.9	26	8.8	1.0	2.0	4632	0.64	98	0.7	78
3184	580834	5223371	2.0	NS	6.5	44	22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3185	580870	5222922	1.0	46	6.5	50	21	0.13	4.6	1.33	14.9	33	36	12465	433	1.5	34	16.6	1.6	2.1	5360	0.25	122	2.5	97
3186	580049	5222663	1.0	61	6.7	44	23	0.12	4.5	1.40	10.6	38	51	9913	163	1.0	36	27.9	1.4	1.1	5439	0.73	86	3.2	67
3187	578666	5222329	23.0	31	7.0	43	24	0.24	4.3	0.71	10.3	45	60	15862	352	1.1	27	7.5	1.7	2.2	2054	0.25	178	5.0	97
3188	577986	5222061	2.0	51	6.9	24	23	0.10	1.4	0.50	3.2	15	36	2261	38	0.5	21	2.9	0.7	1.5	3376	0.25	95	0.7	39
3189	577447	5222739	2.0	66	6.5	42	23	0.09	3.1	1.08	7.7	31	87	4104	63	2.5	50	3.7	1.2	1.0	6959	0.25	135	4.8	105
3190	577115	5223262	1.0	51	6.7	38	22	0.15	INF	0.59	1.7	22	75	2776	34	0.4	13	6.0	INF	INF	4450	0.25	70	12.6	19
3191	577603	5223125	5.0	59	6.8	30	23	0.10	1.7	0.43	3.4	16	44	5884	84	1.0	16	3.9	0.9	1.7	5770	0.25	86	1.3	66
3192	576457	5222965	16.0	52	6.9	45	24	0.26	4.1	1.12	8.2	37	61	8488	344	1.6	21	13.7	1.5	1.1	5126	0.25	125	5.5	101
3193	576609	5221381	5.0	68	7.1	33	24	0.08	2.5	0.79	7.1	20	38	5083	93	1.7	19	5.1	0.5	0.5	6025	0.25	81	2.6	89
3194	576949	5220769	1.0	69	7.1	30	23	0.06	1.8	0.67	6.5	20	42	4681	84	1.7	31	2.4	0.5	0.5	5351	0.25	93	1.8	85
3195	577927	5221376	2.0	64	7.0	30	23	0.10	1.8	0.64	7.5	13	49	2473	64	1.2	24	8.6	INF	INF	5110	0.25	57	0.7	78
3196	578476	5221319	1.0	50	6.9	28	24	0.09	2.4	0.54	2.5	14	30	2942	48	0.3	18	9.1	0.8	0.8	3080	0.25	78	3.1	19
3197	579102	5220811	6.0	65	6.8	24	24	0.12	1.9	0.69	1.8	10	38	3111	58	1.3	16	2.5	0.5	2.7	4333	0.25	73	2.6	68
3198	580292	5220832	7.0	51	6.7	37	24	0.16	2.6	0.83	5.6	22	28	8007	229	1.1	17	9.3	0.9	1.7	3972	0.25	91	3.0	62
3199	580988	5221734	4.0	20	6.9	37	24	0.07	3.3	0.56	11.9	34	25	14278	399	1.5	25	3.2	0.9	1.4	1673	0.25	165	1.7	95
3200	582052	5221770	12.0	35	7.1	38	24	0.17	3.5	0.60	9.9	37	35	11773	336	1.3	23	7.6	1.0	1.0	2503	0.25	172	1.5	78
3201	583633	5219702	1.0	59	7.1	47	23	0.08	1.7	0.83	3.4	10	32	1643	30	4.3	21	3.4	0.2	0.2	6518	0.25	59	2.4	67
3202	582773	5219831	6.0	60	7.0	22	23	0.09	1.9	0.60	3.8	13	26	2659	57	1.3	18	4.2	0.7	2.0	4738	0.25	77	1.4	60
3203	582128	5219268	12.0	37	6.8	42	24	0.18	2.4	0.69	6.8	42	39	10477	417	1.4	24	8.7	1.2	2.2	3343	0.25	171	3.1	89
3204	581533	5219776	8.0	59	6.9	37	24	0.14	3.0	0.59	6.7	21	34	11553	353	2.1	22	17.7	INF	INF	7074	0.25	86	2.9	77
3205	581047	5220711	4.0	65	7.0	27	24	0.11	2.7	0.81	6.5	20	28	4348	98	2.2	20	8.1	0.2	0.7	5523	0.25	77	3.1	99
3206	580621	5219965	1.0	NS	6.9	32	24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3207	580102	5220248	2.0	NS	6.8	31	23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3208	578764	5220199	5.0	49	6.8	36	23	0.17	2.7	0.69	7.0	25	63	6772	165	1.9	22	6.1	1.1	1.8	4205	0.25	123	7.1	81
3209	578046	5219712	3.0	41	6.9	34	24	0.10	3.3	0.60	8.6	33	47	10592	196	1.5	28	5.1	1.2	2.2	4160	0.25	140	3.1	83
3210	577751	5220523	6.0	56	6.9	31	23	0.19	2.4	0.78	5.0	17	63	4726	87	1.0	20	6.7	0.2	0.6	5925	0.25	92	0.9	83
3211	577625	5220070	3.0	70	6.9	31	24	0.14	3.0	0.91	11.2	17	60	4962	70	1.1	28	15.7	0.5	0.5	7322	0.25	74	0.8	98
3212	576947	5219908	9.0	57	7.0	29	24	0.13	2.5	0.66	5.3	26	37	8126	218	1.5	20	6.2	0.8	1.7	5207	0.25	111	1.6	74
3213	576148	5219796	5.0	74	6.7	44	24	0.05	2.8	0.91	6.7	19	41	3582	89	2.3	32	5.2	INF	INF	5829	0.25	113	3.2	97
3214	576688	5219329	5.0	64	6.5	26	24	0.06	2.2	0.80	4.6	10	26	2575	101	3.1	18	4.4	0.2	0.2	4528	0.25	74	2.5	66
3215	576487	5218732	1.0	46	6.5	26	24	0.07	2.4	0.52	2.5	9	26	2404	47	0.7	15	5.4	0.2	0.2	3460	0.25	68	0.8	35
3216	576010	5218441	7.0	54	6.4	25	24	0.14	3.8	0.97	6.9	27	45	7376	177	1.6	24	10.4	0.9	0.8	5504	0.25	92	3.1	133
3217	576216	5217588	5.0	24	6.5	41	24	0.09	2.6	0.40	8.5	38	33	13345	304	1.6	25	3.9	1.2	1.1	2108	0.25	205	5.3	72
3218	576529	5216954	5.0	27	6.8	43	24	0.07	1.6	0.54	6.8	39	34	12485	265	1.5	27	5.8	1.2	1.2	2642	0.25	168	3.9	76
3219	577948	5217767	16.0	27	7.0	44	24	0.12	2.0	0.41	7.0	43	33	14313	273	1.1	27	8.8	0.8	1.0	2627	0.25	183	3.4	76

Site	Easting	Northing	Lake	LOI	pH	Cond	Temp	Ag	As	Cd	Co	Cr	Cu	Fe	Mn	Mo	Ni	Pb	Pd	Pt	S	Sn	Ti	U	Zn
Number	Method------------>		Depth	Grav.	YSI	YSI	YSI	ICP-MS	INAA	ICP-MS	ICP-MS	ICP-OES	ICP-OES	ICP-OES	ICP-OES	ICP-MS	ICP-OES	ICP-MS	FAICPMS	FAICPMS	ICP-OES	ICP-MS	ICP-OES	ICP-MS	ICP-OES
	Detection Limit------->			0.1	0.01	1	0.01	0.02	0.5	0.050	0.05	4	5	5	1	0.10	5	0.05	0.3	0.2	30	0.50	3	0.05	2
	Units------------>		m	%		µS/cm	°C	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm
	(NAD 83 Zone 17)																								
3220	579557	5218296	29.0	34	7.1	44	25	0.16	3.9	0.96	8.3	48	56	13029	603	2.5	26	13.0	1.5	2.2	3120	0.25	173	5.4	93
3221	580669	5218751	10.0	36	7.2	40	24	0.20	3.7	0.95	19.6	47	49	20700	1741	2.9	35	5.6	1.7	1.9	2414	0.25	150	6.2	135
3222	582389	5217779	1.0	57	7.1	35	24	0.05	2.5	0.62	2.2	9	24	1899	65	1.4	21	7.7	0.2	0.2	4662	0.25	55	2.7	38
3223	582143	5217109	6.0	62	7.0	36	24	0.17	3.2	0.75	4.9	21	49	6002	136	4.7	24	11.7	0.5	0.5	8057	0.25	92	2.4	93
3224	580587	5217640	8.0	60	7.0	26	24	0.11	3.2	0.59	9.1	30	35	13054	595	1.8	22	12.1	INF	INF	5219	0.25	159	2.8	91
3225	580009	5217339	3.0	69	6.9	50	24	0.05	1.8	0.69	7.4	11	21	2140	86	1.9	17	6.2	0.2	0.2	6198	0.25	61	0.5	107
3226	579380	5216940	5.0	58	7.1	45	24	0.11	2.7	0.91	5.2	25	41	5904	174	1.5	19	6.0	0.8	0.9	4651	0.25	106	2.2	74
3227	578611	5217070	7.0	37	7.2	43	24	0.13	3.4	0.82	8.3	45	48	13054	236	2.1	32	9.8	1.3	1.6	4404	0.25	197	5.1	82
3228	577924	5216698	3.0	70	7.2	49	24	0.09	2.8	0.83	3.8	13	56	1722	53	2.0	22	7.6	1.0	0.5	6928	0.25	55	0.5	114
3229	578118	5216040	3.0	68	7.9	101	24	0.07	2.6	0.54	2.3	8	52	2151	49	2.3	13	4.7	0.5	0.5	8056	0.25	36	0.7	65
3230	578274	5215512	11.0	53	7.9	49	24	0.12	3.0	1.01	6.2	31	49	7920	316	1.7	22	10.0	0.9	0.9	4846	0.25	108	3.6	96
3231	578597	5216257	4.0	61	7.6	46	24	0.09	4.0	0.95	6.9	23	50	4778	135	3.0	29	9.7	0.7	0.7	6664	0.25	84	4.0	86
3232	579820	5216193	1.0	62	7.4	64	24	0.06	1.5	0.41	2.2	11	29	2042	42	2.9	13	2.7	0.6	0.2	6253	0.25	55	0.7	57
3233	580793	5216554	7.0	44	7.5	49	24	0.12	3.1	0.76	6.6	34	36	10785	282	0.9	24	9.3	0.7	0.7	3501	0.25	136	1.5	80
3234	581396	5215829	1.0	76	7.2	58	23	0.03	3.0	0.62	3.8	10	31	1865	42	1.6	23	9.5	0.5	0.5	7436	0.25	52	0.5	66
3235	582763	5216239	1.0	58	7.0	54	24	0.15	1.4	0.49	3.1	20	28	4009	83	0.6	13	6.9	0.2	0.7	4749	0.25	74	4.0	20
3236	581881	5214417	1.0	65	7.3	70	23	0.02	1.7	0.54	3.9	13	31	2210	39	1.6	20	3.1	0.2	0.2	5751	0.25	72	0.7	49
3237	581595	5215141	1.0	65	6.7	162	24	0.07	3.0	0.43	2.8	10	40	2450	69	1.6	15	2.2	0.2	0.2	7411	0.25	46	0.5	51
3238	580547	5214309	2.0	76	7.0	38	24	0.10	1.4	0.51	3.4	17	33	3580	77	3.1	15	1.8	INF	INF	7001	0.25	86	0.7	61
3239	580246	5215367	1.0	54	6.9	102	24	0.06	1.9	0.53	2.2	11	32	2270	35	1.6	19	6.0	2.2	0.6	6160	0.25	54	0.7	43
3240	579797	5215194	1.0	73	7.2	65	23	0.10	2.0	0.76	6.4	20	50	2516	54	2.5	40	2.7	0.5	0.5	5827	0.25	88	1.1	77
3241	579299	5214529	8.0	52	7.3	53	24	0.14	2.0	0.56	7.3	26	39	9883	401	1.1	24	6.9	1.0	0.7	3776	0.25	112	0.9	90
3242	578961	5213742	6.0	47	7.4	47	24	0.08	1.9	0.49	7.2	44	40	10512	185	1.1	32	6.1	1.2	0.9	3943	0.25	149	2.1	82
3243	578054	5213848	1.0	63	7.3	45	24	0.08	2.4	0.64	4.3	13	36	2497	56	1.8	29	8.7	1.2	5.0	4678	0.25	74	1.5	68
3244	576311	5214192	3.0	NS	7.2	58	24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3245	576295	5212564	2.0	64	7.4	51	24	0.07	2.4	0.52	6.7	14	41	2257	74	2.8	27	1.6	0.8	0.2	5444	0.25	86	1.5	87
3246	577691	5212830	4.0	58	7.4	48	24	0.16	2.4	0.92	8.0	34	44	9657	409	1.0	25	7.6	1.1	1.0	4723	0.25	139	2.1	95
3247	578376	5212207	1.0	54	7.4	87	24	0.01	2.1	0.41	1.3	7	25	941	13	1.3	16	4.6	0.2	0.2	5677	0.25	31	1.5	39
3248	578923	5212433	8.0	61	7.4	38	24	0.12	2.3	0.86	7.4	33	38	7020	222	1.4	27	7.6	1.1	1.4	5643	0.25	118	2.7	104
3249	579434	5212860	6.0	47	7.2	34	24	0.10	3.9	0.78	7.2	37	33	10486	222	0.7	29	14.4	0.9	0.9	5460	0.25	151	2.4	82
3250	579539	5212085	5.0	56	7.1	38	24	0.11	2.2	0.64	4.8	16	37	5589	70	1.2	21	8.7	1.1	0.5	8141	0.25	91	6.6	79
3251	578799	5211291	1.0	53	6.9	46	24	0.08	3.7	1.18	6.3	25	36	8952	107	1.9	33	14.6	1.4	0.9	15370	0.25	96	30.6	83
3252	577830	5211543	1.0	56	6.9	60	24	0.06	3.0	0.96	6.2	28	29	5937	367	0.9	21	6.1	0.8	0.7	5127	0.25	82	4.1	106
3253	576829	5211231	10.0	51	7.3	74	24	0.14	6.2	0.69	8.1	38	52	13994	813	1.4	23	6.7	1.4	1.4	8818	0.25	116	11.6	106
3254	576397	5211355	3.0	63	7.4	50	24	0.06	1.6	0.39	5.7	16	46	2773	54	2.0	23	3.0	1.0	0.5	7846	0.25	68	5.4	69
3255	576162	5210015	8.0	65	7.4	48	24	0.13	4.0	0.69	5.0	21	31	10636	270	3.3	19	13.7	0.7	0.6	7970	0.25	86	4.8	112
3256	577384	5209439	14.0	33	7.5	53	24	0.17	5.7	0.86	14.6	58	39	41977	1276	2.5	35	10.7	2.0	2.2	2571	0.25	181	9.1	150
3257	578661	5209860	8.0	41	7.5	46	24	0.12	1.7	0.56	8.0	46	31	12757	351	0.5	26	5.9	1.0	0.8	3446	0.25	155	7.5	87
3258	579288	5210526	3.0	63	7.4	47	25	0.11	3.8	0.65	5.4	25	42	3600	55	1.9	29	9.8	1.3	0.9	7392	0.25	101	6.6	87
3259	580069	5210083	1.0	57	7.3	55	24	0.02	2.0	0.38	2.2	10	27	990	28	1.8	20	1.6	0.7	0.2	5097	0.25	54	2.7	43
3260	580566	5210684	2.0	56	7.3	63	24	0.08	2.3	0.43	3.2	12	31	1550	29	2.2	19	3.4	1.0	0.8	5711	0.25	60	3.1	44
3261	582247	5211063	1.0	45	7.2	96	24	0.05	2.4	0.78	8.3	11	41	4454	107	1.3	36	6.9	INF	INF	8543	0.25	47	1.6	93
3262	582813	5211159	8.0	55	7.4	105	24	0.13	4.9	1.22	8.5	31	51	8269	344	1.3	31	15.9	1.7	1.2	8560	0.25	80	2.2	119
3263	583629	5210459	3.0	60	7.6	116	24	0.04	3.1	0.45	2.3	7	63	1921	41	3.0	11	3.3	1.2	0.2	10068	0.25	36	1.0	54
3264	582515	5210216	1.0	78	7.6	93	24	0.01	3.0	0.43	2.5	7	40	2088	68	2.7	13	1.0	INF	INF	8655	0.25	38	0.5	52
3265	583671	5208481	22.0	21	7.6	99	23	0.12	5.9	0.63	9.6	51	48	22789	582	1.7	37	10.6	1.8	1.9	2041	0.25	245	2.3	95
3266	582243	5206275	5.0	92	7.6	41	23	0.02	INF	0.27	3.0	6	19	1303	97	1.4	8	1.2	INF	INF	4025	0.25	28	0.3	51
3267	582799	5205928	6.0	NS	7.6	89	24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3268	583089	5203538	6.0	66	7.9	78	24	0.15	3.4	0.59	5.1	17	40	5291	90	2.5	18	15.8	0.5	0.5	6687	0.25	78	2.3	58
3269	583885	5202483	1.0	65	7.8	104	24	0.11	3.3	0.37	4.3	20	46	4654	62	3.2	27	5.2	0.9	0.2	7123	0.25	106	3.1	70
3270	584982	5202358	8.0	47	7.8	73	24	0.22	5.2	0.81	7.9	30	50	12187	484	1.4	26	18.6	1.5	1.0	5822	0.25	141	2.2	91
3271	584664	5201748	1.0	64	7.7	79	24	0.08	2.3	0.31	2.9	14	36	2170	34	1.7	23	6.1	0.7	0.2	4400	0.25	75	1.5	46
3272	586627	5199515	2.0	32	7.7	56	24	0.20	3.3	0.51	10.8	52	56	18315	309	1.2	36	5.5	1.3	1.0	2369	0.25	181	1.7	95
3273	587905	5199097	3.0	41	7.5	40	24	0.35	3.7	0.46	11.6	52	62	16450	256	0.6	40	10.3	1.5	1.1	3106	0.25	192	1.0	90
3274	588799	5198689	8.0	41	7.4	51	24	0.44	7.9	1.60	23.8	63	78	42395	2574	2.4	54	16.3	INF	INF	2304	0.25	177	9.6	196
3275	592375	5197906	3.0	60	7.6	72	24	0.13	2.7	0.45	3.7	19	43	3328	40	2.4	20	6.8	1.7	0.5	7021	0.25	82	1.7	63
3276	591593	5198472	7.0	62	7.6	60	24	0.16	2.6	0.75	5.0	28	48	5503	103	1.8	22	10.2	1.3	0.5	6515	0.25	103	1.4	84
3277	590124	5199926	8.0	NS	7.6	44	24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3278	590606	5201115	5.0	57	7.5	50	24	0.21	3.6	1.03	11.6	45	79	14916	200	2.1	35	7.6	1.2	1.0	5834	0.25	145	2.4	134
3279	591264	5201253	10.0	44	7.5	51	24	0.25	6.4	1.23	7.8	44	58	13578	251	1.2	36	37.1	1.6	1.3	5804	0.97	147	1.5	114
3280	591428	5202433	4.0	58	7.4	283	24	0.19	2.1	0.89	6.4	22	47	4926	123	1.9	24	6.3	0.9	0.6	5467	0.25	109	2.0	90
3281	590080	5201871	5.0	50	7.7	59	24	0.36	17.0	1.30	13.4	35	58	26170	1092	2.0	31	58.0	1.7	3.0	11975	1.67	127	1.3	134
3282	588884	5202218	1.0	61	7.6	53	24	0.27	4.3	0.79	10.7	35	103	7473	88	2.7	47	7.0	1.8	1.1	7487	0.25	172	3.1	103
3283	589810	5203409	21.0	35	7.6	102	24	0.34	14.0	2.22	22.5	44	63	36350	7189	3.5	63	75.5	INF	INF	3035	1.79	87	2.0	188
3284	591421	5205525	8.0	54	7.6	41	24	0.21	5.7	0.77	11.2	29	88	12768	191	0.7	35	25.6	1.4	1.0	7806	0.75	138	0.9	75
3285	590828	5205403	2.0	67	7.4	56	24	0.20	2.6	0.63	8.5	24	67	5037	59	1.6	31	4.4	1.5	0.9	4981	0.25	127	0.9	84
3286	588598	5204250	23.0	39	7.5	103	24	0.40	17.0	1.80	14.9	49	69	25147	490	1.9	51	80.7	2.7	1.7	9709	2.35	159	1.6	144
3287	588918	5205256	3.0	67	7.6	48	24	0.13	2.1	0.61	6.1	17	47	3247	44	4.2	29	4.0	2.3	1.2	4497	0.25	82	1.1	72
3288	586698	5205681	2.0	NS	7.4	89	24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3289	581587	5210073	1.0	73	7.8	113	25	0.04	INF	0.50	4.2	16	39	2725	64	1.6	20	4.8	INF	INF	6756	0.25	74	0.7	59
3290	581467	5209570	1.0	75	7.9	82	25	0.05	2.1	0.32	3.8	11	39	2443	57	1.2	14	1.9	INF	INF	7389	0.25	66	0.3	52
3291	579851	5209021	2.0	NS	7.7	65	24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3292	578631	5208459	10.0	48	7.5	54	24	0.14	3.9	0.70	8.4	38	37	12294	625	1.7	21	7.3	1.4	1.1	3807	0.25	123	6.4	96
3293	577585	5208372	13.0	32	7.5	52	24	0.22	12.0	1.25	11.1	50	40	36739	649	1.4	42	41.0	2.4	3.2	3732	1.34	154	6.7	150
3294	576927	5208425	8.0	61	8.4	118	25	0.01	3.6	0.39	1.9	14	17	2909	33	1.3	16	5.5	1.3	0.8	7404	0.25	84	5.3	34
3295	576938	5207221	5.0	NS	8.4	60	24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3296	576393	5205855	5.0	71	7.9	60	24	0.15	8.8	1.36	5.4	18	36	4515	123	2.0	25	35.2	INF	INF	9562	0.88	71	3.3	100
3297	577094	5206331	2.0	63	7.8	45	24	0.10	1.6	0.76	5.7	29	30	6764	133	1.9	22	3.9	0.5	0.5	7673	0.25	110	4.0	80
3298	577951	5207176	1.0	62	8.2	48	25	0.10	1.5	1.05	4.3	20	23	4632	155	2.9	18	5.5	0.7	0.2	7104	0.25	99	9.9	54
3299	578742	5207507	4.0	45	7.9	32	24	0.09	1.9	0.78	6.8	21	20	6485	196	0.9	19	7.4	0.2	0.6	3565	0.25	86	3.6	62
3300	580297	5207717	1.0	62	7.3	64	24	0.06	2.3	0.53	3.3	10	37	2575	38	2.1	17	2.0	0.2	0.2	9084	0.25	64	0.6	52
3301	580284	5205961	40.0	24	7.6	93	23	0.23	8.5	1.15	12.2	55	76	20893	1510	3.4	47	9.5	2.7	2.8	2267	0.25	208	3.1	135
3302	582075	5205278	7.0	44	7.8	90	24	0.18	3.8	0.88	7.6	38	47	12088	331	1.3	23	6.3	1.5	1.7	3540	0.25	129	6.9	93
3303	581220	5204278	4.0	NS	8.0	78	24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3304	579462	5204000	7.0	47	7.7	71	24	0.10	2.1	0.48	2.3	11	60	2486	24	2.7	19	2.0	0.2	0.2	7234	0.25	65	1.3	48
3305	578476	5204330	37.0	NS	7.6	89	23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3306	576661	5203273	18.0	34	7.6	78	23	0.26	8.9	0.93	8.5	42	67	15151	317	1.6	42	30.0	3.3	2.9	4315	0.96	126	2.6	85
3307	578874	5201871	9.0	47	7.6	43	24	0.15	3.8	0.75	6.7	35	47	8955	116	1.5	31	13.4	1.4	1.1	4605	0.62	132	2.0	60
3308	580983	5202512	8.0	65	7.7	71	24	0.18	6.3	1.11	3.2	12	50	6694	57	2.9	27	28.6	0.8	0.7	9873	1.04	76	1.3	70
3309	580658	5201326	8.0	42	7.9	59	24	0.19	5.8	0.81	8.7	42	39	13718	436	1.1	31	11.0	INF	INF	3849	0.25	155	1.9	86
3310	581995	5200545	4.0	67	7.8	61	24	0.19	6.0	1.01	8.0	34	105	7591	125	3.6	46	9.4	INF	INF	8806	0.25	129	2.8	102
3311	583070	5200792	1.0	77	8.8	168	24	0.11	2.9	0.57	4.5	10	28	2177	72	1.9	22	4.4	0.6	0.7	5415	0.25	49	1.3	64
3312	584537	5198343	7.0	24	8.3	58	24	0.16	5.3	0.67	14.0	58	44	26611	817	1.0	40	6.7	1.8	1.6	2476	0.25	284	2.4	103
3313	586186	5198301	6.0	61	7.7	37	24	0.35	4.7	0.87	5.0	17	70	8734	106	1.7	35	21.1	1.6	0.9	7154	0.83	79	0.8	71
3314	586524	5198719	4.0	53	7.4	39	24	0.22	3.2	0.61	8.3	38	57	9799	236	0.6	31	6.3	1.5	1.0	4152	0.25	139	1.2	59
3315	586936	5197887	1.0	50	7.3	44	24	0.19	3.5	0.57	4.1	17	49	4101	43	0.8	26	7.9	1.0	0.6	4587	0.25	99	0.9	34

Site	Easting	Northing	Lake	LOI	pH	Cond	Temp	Ag	As	Cd	Co	Cr	Cu	Fe	Mn	Mo	Ni	Pb	Pd	Pt	S	Sn	Ti	U	Zn
Number	Method------------>		Depth	Grav.	YSI	YSI	YSI	ICP-MS	INAA	ICP-MS	ICP-MS	ICP-OES	ICP-OES	ICP-OES	ICP-OES	ICP-MS	ICP-OES	ICP-MS	FAICPMS	FAICPMS	ICP-OES	ICP-MS	ICP-OES	ICP-MS	ICP-OES
	Detection Limit------->			0.1	0.01	1	0.01	0.02	0.5	0.050	0.05	4	5	5	1	0.10	5	0.05	0.3	0.3	30	0.50	3	0.05	2
	Units------------>		m	%		µS/cm	°C	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm
	(NAD 83 Zone 17)																								
3316	588293	5198118	3.0	47	7.3	50	24	0.42	2.9	0.82	10.1	36	72	9317	152	1.1	30	6.1	1.2	0.9	3580	0.25	137	5.2	70
3317	575468	5224037	2.0	73	7.0	33	22	0.21	2.9	0.93	8.9	19	58	10814	272	4.2	19	3.1	1.5	0.5	8208	0.25	55	2.0	135
3318	574958	5224278	17.0	41	7.1	42	23	0.20	11.0	1.22	25.4	44	69	35503	2917	4.9	41	12.2	2.2	1.5	2663	0.25	111	4.5	179
3319	573996	5222887	17.0	33	7.3	43	23	0.29	20.0	1.51	28.1	52	94	52502	4261	8.7	52	8.9	2.6	3.1	2275	0.25	140	5.0	239
3320	575054	5222384	1.0	52	7.3	57	22	0.10	2.7	0.69	4.0	14	28	1992	39	3.0	19	3.0	0.8	0.6	4942	0.25	72	4.3	79
3321	574334	5222126	8.0	62	7.1	31	22	0.22	2.0	1.09	7.6	20	45	7396	257	2.6	19	9.8	0.7	0.2	6410	0.25	79	1.4	210
3322	573239	5222279	7.0	34	7.1	42	23	0.13	4.5	0.42	5.6	41	47	9234	170	0.9	26	6.8	1.4	2.4	2953	0.25	126	2.7	82
3323	572507	5222357	12.0	53	7.2	40	23	0.28	4.4	0.89	4.9	37	89	5806	219	2.3	24	5.9	2.1	1.8	4628	0.25	87	2.9	102
3324	572782	5222243	2.0	54	7.0	37	21	0.10	2.3	0.59	3.5	15	44	2366	61	1.3	23	8.2	1.0	0.9	5865	0.25	75	1.2	67
3325	572692	5221668	1.0	35	6.9	33	22	0.12	1.7	0.46	3.0	11	89	1217	16	0.7	21	24.3	0.7	0.2	3288	0.25	62	1.8	106
3326	571034	5221701	3.0	37	6.8	26	22	0.12	1.3	0.31	5.7	17	81	3877	137	0.9	19	3.2	0.6	0.2	3337	0.25	108	1.5	55
3327	572127	5220681	3.0	43	6.8	29	23	0.12	2.6	0.81	8.7	23	40	4558	162	1.5	21	4.4	1.0	2.0	4191	0.25	85	1.2	88
3328	572244	5220158	1.0	41	6.8	19	22	0.06	1.4	0.35	4.0	11	30	1743	36	0.6	17	4.3	0.2	0.2	3207	0.25	81	0.6	29
3329	572589	5220068	1.0	35	6.3	25	20	0.39	7.6	1.97	24.9	40	65	35833	7193	3.7	62	76.5	INF	INF	2924	2.12	99	1.9	195
3330	573533	5220600	3.0	45	6.4	86	21	0.11	6.5	1.04	7.6	24	25	6391	98	5.4	18	13.5	1.7	2.1	6926	0.25	144	2.9	95
3331	573569	5220067	7.0	42	7.3	89	22	0.10	34.0	0.68	12.7	42	52	9667	251	4.8	15	6.1	6.0	2.7	8993	0.25	102	5.6	106
3332	574803	5221286	2.0	71	7.6	40	22	0.12	2.2	0.68	4.8	25	38	3117	67	1.8	27	4.2	0.5	0.5	5296	0.25	81	1.1	77
3333	575267	5221462	1.0	58	7.2	34	21	0.05	1.1	0.39	2.2	6	19	976	25	1.5	21	2.3	0.2	0.2	3910	0.25	41	1.8	43
3334	575763	5220697	6.0	72	7.0	32	21	0.06	2.1	0.60	4.8	18	30	4439	104	1.7	16	3.4	0.5	0.5	5890	0.25	72	2.4	78
3335	575348	5219418	1.0	67	6.9	36	20	0.07	3.7	1.25	4.5	13	25	5720	173	1.1	20	17.3	0.2	0.7	6386	0.25	99	1.8	87
3336	575386	5219029	4.0	54	6.9	30	21	0.09	1.7	0.56	3.7	7	46	1744	65	1.7	14	2.8	0.2	0.2	4192	0.25	53	0.7	66
3337	574673	5218800	1.0	59	6.8	49	22	0.05	2.2	0.45	2.9	11	38	1051	34	1.8	23	1.7	0.9	0.2	4924	0.25	56	1.4	48
3338	575165	5217671	5.0	78	7.0	26	22	0.18	2.4	1.31	3.5	20	62	3137	88	1.0	20	4.6	0.6	0.7	5266	0.25	80	0.7	215
3339	572247	5218885	16.0	52	6.7	26	24	0.34	10.0	1.68	11.3	25	89	11802	350	2.6	50	85.2	2.6	2.1	11084	2.14	98	1.6	124
3340	569280	5215919	19.0	11	6.9	58	23	0.07	5.3	0.33	7.4	41	36	18380	488	1.4	28	5.8	1.4	1.4	988	0.25	291	2.2	67
3341	572204	5215714	12.0	9	7.2	57	23	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD
3342	573172	5216802	14.0	16	7.5	57	23	0.10	4.6	0.79	7.5	49	53	16777	844	1.9	34	7.8	2.1	1.9	1348	0.25	234	3.7	103
3343	575618	5216407	1.0	56	7.4	97	21	0.07	1.8	1.28	2.8	8	40	2227	37	3.1	16	2.2	0.2	0.2	7904	0.25	27	1.2	147
3344	574745	5214677	19.0	53	7.6	56	23	0.19	4.1	0.96	12.8	42	51	24570	1074	2.0	25	6.8	1.8	1.1	4510	0.25	122	3.9	106
3345	575432	5213662	1.0	57	7.6	61	21	0.07	1.5	0.40	1.9	10	36	1246	28	2.9	35	1.2	0.7	0.9	6098	0.25	55	1.0	47
3346	575554	5212938	1.0	66	7.5	52	22	0.07	1.9	0.42	3.0	13	31	1081	38	2.5	15	1.6	0.9	0.2	5910	0.25	65	1.3	62
3347	574753	5213451	1.0	69	7.4	63	21	0.12	4.1	0.73	1.5	8	39	1410	34	8.6	14	1.6	0.2	0.2	9962	0.25	37	1.4	135
3348	573749	5214160	16.0	9	7.6	58	23	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD
3349	572070	5214274	18.0	50	7.5	32	23	0.24	3.4	1.04	7.3	35	107	5309	340	3.2	23	11.6	1.6	1.5	5637	0.25	94	2.6	117
3350	571401	5213819	13.0	51	7.3	30	23	0.24	3.7	0.69	11.4	33	73	13550	455	1.6	24	15.3	1.5	1.5	5418	0.25	111	1.4	105
3351	571658	5212068	1.0	48	7.2	44	22	0.11	13.0	0.45	7.4	36	68	15213	190	2.7	28	2.2	2.8	2.4	7654	0.25	98	1.9	95
3352	572087	5211678	3.0	NS	7.4	54	22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3353	572598	5211973	1.0	67	7.5	70	22	0.10	3.3	0.66	4.0	12	35	2318	139	2.3	13	2.3	1.7	0.9	4900	0.25	73	0.9	129
3354	572912	5212279	1.0	NS	7.5	84	22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3355	573273	5211551	10.0	35	7.6	62	23	0.19	3.4	0.70	6.1	38	59	9655	191	1.2	23	8.0	1.8	2.3	4136	0.25	134	2.7	75
3356	572127	5211064	2.0	67	7.6	51	22	0.10	3.4	0.38	2.9	10	60	4024	66	2.7	20	2.6	2.0	0.8	8622	0.25	45	1.3	87
3357	571867	5210954	1.0	74	7.0	67	23	0.18	INF	0.74	7.2	17	55	5497	101	3.5	21	6.6	INF	INF	10695	0.25	74	1.7	92
3358	572117	5210545	1.0	48	6.9	25	21	0.11	3.2	0.40	4.2	25	35	6269	85	0.8	21	10.1	1.8	2.1	2869	0.25	136	0.6	46
3359	572597	5210390	3.0	75	7.0	100	23	0.48	INF	0.67	1.9	34	250	1700	28	4.1	35	6.0	INF	INF	7252	0.25	52	6.3	72
3360	573655	5210603	1.0	55	7.3	77	22	0.11	2.5	0.51	2.3	9	49	1505	28	3.7	15	5.4	1.0	1.4	6597	0.25	47	8.6	45
3361	573686	5210046	3.0	68	7.2	34	22	0.10	1.5	0.66	3.8	7	43	4341	134	2.0	14	4.0	0.2	0.2	7290	0.25	55	1.6	114
3362	573830	5209831	2.0	69	7.0	31	23	0.12	1.3	0.46	5.4	22	38	2901	79	1.4	25	3.7	1.0	0.9	5412	0.25	76	5.1	94
3363	574334	5209688	3.0	52	6.9	45	23	0.11	2.7	0.51	5.3	21	43	3146	72	2.3	27	3.8	1.3	1.8	6040	0.25	75	6.2	75
3364	574542	5210736	11.0	57	7.1	57	23	0.26	4.4	1.04	7.2	24	56	13937	504	3.9	21	10.6	1.1	0.7	10154	0.25	72	4.1	139
3365	575152	5210785	11.0	54	7.3	55	23	0.21	3.3	0.90	9.2	24	59	11591	234	3.0	21	7.4	1.0	1.5	12317	0.25	79	7.6	130
3366	575891	5210093	1.0	61	7.4	47	22	0.12	2.8	0.88	7.9	20	35	5120	102	3.6	27	7.5	0.9	1.0	6953	0.25	66	10.7	118
3367	575927	5209253	4.0	60	7.0	31	22	0.14	2.9	0.72	4.5	17	38	10446	81	6.5	20	4.0	0.8	0.9	11255	0.25	67	59.6	98
3368	574808	5209142	3.0	NS	6.8	49	23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3369	574011	5208898	13.0	53	7.0	36	23	0.19	2.8	0.79	11.2	36	42	13039	527	1.7	24	8.2	0.8	0.8	5501	0.25	102	3.8	135
3370	574982	5207819	15.0	45	7.2	49	23	0.16	3.9	0.62	6.2	49	43	17136	411	3.6	23	7.3	1.6	2.3	5623	0.25	114	10.0	115
3371	575346	5202536	14.0	33	7.3	74	23	0.12	5.5	0.47	6.1	47	56	12992	222	1.5	32	10.1	2.1	1.4	3513	0.25	121	2.5	74
3372	573578	5204109	14.0	NS	7.5	65	23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3373	567410	5204699	38.0	NS	7.6	61	23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3374	567780	5202509	36.0	25	7.6	60	23	0.11	10.0	1.07	9.7	44	84	16217	1119	3.3	39	7.5	2.8	2.4	2346	0.25	125	3.9	117
3375	569237	5199812	39.0	15	7.6	61	23	0.08	6.1	1.18	9.8	48	58	16355	434	1.4	38	7.9	2.4	2.1	1432	0.25	258	3.3	97
3376	573814	5198885	27.0	29	7.6	67	23	0.11	11.0	1.41	10.2	51	86	15123	1344	4.2	48	8.7	3.5	2.3	2677	0.25	127	4.1	137
3377	574674	5196753	23.0	NS	7.6	63	23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3378	570845	5197087	44.0	23	7.6	63	23	0.12	10.0	1.76	10.9	50	78	15506	1068	3.3	46	9.5	2.9	2.1	2064	0.25	152	4.0	150
3379	567837	5197264	25.0	NS	7.6	60	22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3380	568695	5195441	9.0	39	7.6	59	23	0.08	4.9	0.60	7.7	34	48	10706	196	1.4	26	7.4	1.6	2.3	3520	0.25	129	1.9	79
3381	567225	5194447	3.0	58	7.4	27	23	0.15	3.5	0.70	8.5	18	48	3198	70	1.2	32	5.4	0.6	0.7	4009	0.25	80	0.8	78
3382	565427	5194486	19.0	30	7.2	58	22	0.14	10.0	1.12	9.8	41	74	16023	764	3.4	34	8.2	2.5	1.8	2586	0.25	113	3.3	119
3383	567140	5193293	9.0	36	7.3	22	24	0.16	3.7	0.81	12.3	51	57	15194	336	2.0	33	11.1	INF	INF	3417	0.25	193	1.2	99
3384	567672	5192717	20.0	45	6.0	23	23	0.15	3.4	0.69	13.4	42	66	16015	435	1.9	29	10.1	INF	INF	3438	0.25	174	1.7	89
3385	568363	5193342	7.0	62	5.9	25	23	0.17	3.8	0.63	7.4	13	51	9750	154	1.7	18	4.0	0.2	0.2	7251	0.25	62	0.7	91
3386	569222	5193277	20.0	41	6.3	62	23	0.18	6.4	0.41	27.6	36	44	26153	844	1.4	26	12.8	INF	INF	5057	0.25	209	1.1	80
3387	571077	5192930	22.0	NS	6.5	NM	23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3388	572600	5195089	28.0	29	6.9	63	23	0.14	8.0	1.11	10.1	46	77	14630	697	2.7	39	9.0	3.1	3.0	2531	0.25	116	3.4	106
3389	573575	5194207	6.0	62	6.6	24	21	0.12	3.6	0.65	6.7	14	50	6880	174	0.9	19	5.5	1.4	1.0	4109	0.25	55	0.4	58
3390	574389	5195039	7.0	48	5.8	24	22	0.13	1.6	0.46	3.4	14	41	3566	64	0.5	17	3.7	0.7	1.7	3290	0.25	66	0.5	46
3391	575454	5194754	7.0	56	5.8	23	23	0.11	2.9	0.68	7.9	25	58	5610	113	0.8	22	5.7	0.9	1.7	4754	0.25	100	0.7	77
3392	575511	5193999	2.0	63	6.0	39	23	0.10	1.1	0.38	1.4	9	35	1691	40	0.4	15	5.0	1.8	0.8	3544	0.25	64	1.0	11
3393	573556	5192843	20.0	52	6.9	51	24	0.17	8.7	0.91	10.7	37	65	12966	295	1.3	31	19.0	2.4	2.0	6015	0.25	96	2.1	100
3394	574630	5192907	15.0	38	7.1	48	24	0.22	16.0	1.38	38.0	52	92	43934	4275	4.3	49	11.0	2.5	1.7	2713	0.25	133	2.3	183
3395	563375	5193370	1.0	39	7.3	47	23	0.10	7.1	0.41	6.1	22	68	7561	151	2.4	31	6.8	1.9	1.1	6439	0.25	176	1.7	43
3396	563388	5194274	1.0	25	7.2	39	23	0.09	18.0	2.01	19.9	46	103	23951	506	1.6	115	34.5	7.1	7.4	9161	0.95	488	1.9	165
3397	562968	5194413	3.0	37	7.1	21	23	0.04	9.1	1.20	11.9	34	75	12265	473	1.0	54	17.5	3.0	3.6	5413	0.25	210	2.6	119
3398	562996	5195491	10.0	55	7.2	33	23	0.14	3.6	1.01	7.4	24	64	5639	142	1.5	29	12.9	2.3	1.6	5555	0.25	86	1.2	84
3399	561998	5195553	30.0	20	7.3	38	23	0.10	12.0	1.07	10.5	44	63	16973	769	2.2	49	20.2	4.1	1.8	2648	0.53	109	1.9	108
3400	560752	5194699	31.0	23	7.3	38	23	0.11	10.0	0.97	7.9	40	72	13628	814	2.4	37	9.6	3.4	2.2	2085	0.25	84	2.4	107
3401	560453	5197352	13.0	49	7.1	31	24	0.44	14.0	1.71	20.9	30	110	20789	270	1.6	66	74.8	4.5	5.2	11673	2.02	88	1.0	123
3402	559632	5197141	9.0	52	6.9	25	23	0.17	2.5	0.62	4.1	16	65	2989	76	0.8	18	5.2	INF	INF	4180	0.25	70	0.7	52
3403	558776	5197710	6.0	49	6.7	27	23	0.11	4.2	0.75	5.5	20	65	3678	90	0.8	23	6.8	2.1	2.1	5314	0.25	63	0.6	71
3404	558677	5196548	6.0	65	5.9	26	23	0.08	1.2	0.61	1.8	6	42	2399	59	0.7	14	2.5	1.3	1.4	4716	0.25	50	0.3	49
3405	557864	5196094	6.0	21	5.9	28	23	0.09	2.7	0.36	6.1	24	37	9101	137	0.6	24	6.2	1.2	1.8	3150	0.25	208	0.8	44
3406	557228	5195406	15.0	43	6.4	38	24	0.41	14.0	1.70	9.6	38	121	15260	201	2.5	65	58.6	5.1	4.7	7933	1.41	93	1.8	133
3407	556811	5196909	25.0	28	6.8	38	24	0.38	21.0	2.42	17.3	44	120	21628	2570	2.4	105	78.2	5.4	4.6	2699	2.20	125	1.5	192
3408	555103	5196531	6.0	57	6.9	24	24	0.14	7.1	1.24	14.1	28	84	5500	98	1.1	56	19.7	2.0	1.3	7526	0.72	80	0.7	121
3409	554724	5196174	13.0	59	6.5	25	24	0.28	7.0	0.89	32.8	42	129	14313	398	1.9	28	8.5	1.1	0.7	7298	0.25	98	0.7	109
3410	554567	5196468	6.0	46	6.4	25	23	0.17	4.1	1.38	15.9	40	122	6975	182	0.8	30	8.1	1.6	2.6	5339	0.25	106	0.5	156
3411	554953	5197176	11.0	41	6.4	32	24	0.22	8.5	0.96	20.6	73	107	11190	319	0.7	59	15.0	2.0	1.2	4550	0.54	165	0.9	136

Site	Easting	Northing	Lake	LOI	pH	Cond	Temp	Ag	As	Cd	Co	Cr	Cu	Fe	Mn	Mo	Ni	Pb	Pd	Pt	S	Sn	Ti	U	Zn
Number	Method------------->		Depth	Grav.	YSI	YSI	YSI	ICP-MS	INAA	ICP-MS	ICP-MS	ICP-OES	ICP-OES	ICP-OES	ICP-OES	ICP-MS	ICP-OES	ICP-MS	FAICPMS	FAICPMS	ICP-OES	ICP-MS	ICP-OES	ICP-MS	ICP-OES
	Detection Limit------->			0.1	0.01	1	0.01	0.02	0.5	0.050	0.05	4	5	5	1	0.10	5	0.05	0.3	0.3	30	0.50	3	0.05	2
	Units------------->		m	%		µS/cm	°C	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm
	(NAD 83 Zone 17)																								
3412	554320	5197309	1.0	54	6.5	26	24	0.12	4.2	0.91	12.8	47	62	8976	106	1.0	53	14.0	1.2	3.4	6533	0.25	192	0.8	86
3413	554789	5197818	14.0	51	6.0	22	24	0.28	9.1	1.23	20.0	46	75	18224	153	1.2	71	37.1	4.2	1.7	13574	1.49	155	0.7	121
3414	554741	5198672	7.0	52	5.9	35	24	0.16	3.6	0.76	4.3	12	51	2122	70	4.5	24	2.6	0.8	0.2	4936	0.25	70	1.0	68
3415	555483	5198760	9.0	34	6.5	38	24	0.18	7.1	1.21	7.6	29	73	7232	180	1.4	39	26.9	2.4	3.0	5032	0.52	70	1.3	92
3416	556074	5197920	31.0	28	6.9	38	24	0.25	13.0	1.67	18.2	42	89	20874	1759	2.2	67	28.6	INF	INF	2796	0.78	115	1.6	190
3417	556591	5198934	8.0	53	6.8	31	23	0.18	6.8	0.81	8.1	17	69	9782	179	3.4	38	26.1	1.9	1.3	9371	0.57	70	1.2	95
3418	556370	5198611	4.0	55	6.6	33	22	0.17	5.4	1.16	6.8	14	53	7966	138	1.6	32	21.4	2.1	2.5	8168	0.54	59	1.1	91
3419	556950	5198930	6.0	61	6.6	33	23	0.12	7.8	1.13	13.9	18	55	13282	348	1.1	41	32.2	3.6	2.2	11329	0.61	50	0.5	138
3420	557960	5198950	17.0	56	6.9	33	24	0.50	19.0	3.05	26.4	26	128	18036	660	1.6	108	150.3	7.2	5.8	17058	4.17	88	0.8	218
3421	556278	5199873	14.0	34	6.9	35	24	0.20	5.0	0.79	8.4	45	64	15588	407	2.4	27	11.2	1.7	1.1	3522	0.25	118	2.6	111
3422	556237	5201113	8.0	28	7.0	36	24	0.17	7.7	0.77	10.2	44	55	17737	447	2.2	39	19.4	2.5	2.4	3351	0.51	128	2.5	115
3423	553212	5200722	7.0	27	7.0	39	24	0.20	8.6	0.77	8.4	42	58	21083	256	1.2	43	23.2	2.0	2.4	3630	0.64	134	2.0	116
3424	551167	5205151	9.0	61	7.0	26	24	0.17	2.4	0.56	12.9	19	55	4817	158	1.5	24	4.1	0.2	0.2	6136	0.25	43	0.9	88
3425	549852	5205930	3.0	NS	6.8	56	24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3426	549586	5207059	1.0	55	NM	NM	NM	0.08	3.6	0.47	5.9	16	52	4027	53	2.3	29	3.9	0.9	1.8	4942	0.25	92	1.6	62
3427	548189	5206913	5.0	NS	7.3	58	24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3428	547511	5205776	20.0	NS	7.5	58	23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3429	546230	5206238	7.0	NS	7.5	57	23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3430	545671	5207466	2.0	64	7.6	43	23	0.10	2.6	0.61	14.4	20	52	3751	61	2.4	40	5.0	0.2	0.2	5208	0.25	94	1.3	83
3431	545546	5209829	3.0	45	7.1	30	23	0.13	2.7	0.65	10.7	23	44	6320	53	1.1	38	8.4	0.7	1.7	4455	0.25	86	1.0	68
3432	546494	5209704	4.0	49	6.4	28	23	0.14	3.7	0.50	7.2	15	43	5884	51	1.5	30	10.3	0.9	0.2	6873	0.25	82	1.1	70
3433	547911	5209379	10.0	52	4.6	38	24	0.14	5.5	0.89	6.8	27	41	6615	62	0.9	33	14.7	1.1	2.6	5840	0.25	97	1.0	69
3434	548667	5209872	1.0	48	5.0	25	24	0.13	11.0	0.46	11.8	26	56	9291	54	6.0	35	11.6	4.0	2.0	7711	0.25	98	4.2	36
3435	547947	5210047	5.0	60	4.8	27	24	0.20	8.3	0.82	6.1	19	59	9777	91	1.8	41	24.9	2.0	1.0	8676	0.92	61	0.8	81
3436	546067	5210560	3.0	41	5.1	29	24	0.08	3.2	0.60	10.8	26	42	8008	111	1.8	30	5.9	0.8	0.7	4139	0.25	72	1.0	91
3437	546925	5210695	4.0	58	5.1	30	24	0.14	6.6	0.88	28.6	28	40	22641	239	2.4	39	14.8	1.2	0.8	7780	0.25	96	1.1	84
3438	547405	5210832	6.0	46	4.6	34	24	0.07	2.3	0.52	5.9	25	34	5880	81	1.4	22	5.6	0.7	0.2	3692	0.25	80	1.1	55
3439	547812	5210825	5.0	56	4.4	31	24	0.07	4.9	1.02	5.6	21	23	5703	221	0.7	23	12.7	1.2	0.2	4455	0.25	49	0.5	67
3440	546673	5213599	8.0	40	5.3	25	24	0.04	1.2	0.63	8.7	21	39	8043	143	0.7	15	3.3	0.7	2.1	3326	0.25	88	0.7	64
3441	543620	5215321	2.0	47	5.6	28	23	0.08	3.1	0.46	4.1	14	29	2480	49	1.3	15	3.5	0.8	2.1	2880	0.25	68	2.3	44
3442	544014	5217358	3.0	53	4.5	28	23	0.14	5.5	0.89	5.2	22	32	10879	74	1.4	34	25.1	INF	INF	8230	0.69	90	2.5	61
3443	544121	5217755	3.0	53	4.4	33	24	0.06	1.2	0.72	2.2	12	19	2471	35	1.0	15	7.3	0.2	0.2	3473	0.25	70	2.7	39
3444	545039	5218537	10.0	56	4.5	29	24	0.18	6.7	1.06	5.2	24	39	9011	48	1.5	35	27.6	2.2	1.3	6656	0.82	91	2.3	71
3445	544279	5219129	8.0	46	4.7	26	24	0.08	2.0	0.62	5.0	23	23	7002	82	0.6	15	8.4	0.5	1.5	3415	0.25	92	4.3	46
3446	545075	5219272	2.0	48	4.7	20	24	0.01	0.9	0.41	1.9	8	12	2103	32	0.6	14	3.0	1.5	0.8	2323	0.25	55	1.5	25
3447	545567	5219757	1.0	47	4.6	26	24	0.05	0.8	0.49	1.6	8	13	3210	41	0.8	12	2.5	0.3	1.3	2256	0.25	84	1.5	12
3448	545827	5219352	1.0	52	4.8	36	24	0.02	1.3	0.53	2.0	7	16	1639	21	0.9	17	3.7	0.4	1.3	3004	0.25	62	1.1	17
3449	548068	5218719	5.0	63	5.1	24	25	0.09	2.5	0.89	4.9	13	56	3086	44	1.4	16	7.0	1.0	0.2	3984	0.25	59	1.5	55
3450	547506	5217712	2.0	60	5.3	25	25	0.08	3.8	0.78	4.1	15	41	3674	58	1.0	17	10.4	1.0	1.9	3818	0.25	84	1.3	17
3451	547104	5217823	11.0	66	5.5	27	25	0.12	5.8	1.00	5.7	13	40	13650	262	1.5	16	20.4	0.9	0.2	9094	0.25	48	1.1	90
3452	546588	5217578	5.0	15	5.8	27	24	0.05	3.6	0.38	14.1	32	15	19335	204	0.6	21	6.6	0.6	0.9	1795	0.25	263	1.1	51
3453	547208	5216557	26.0	NS	6.1	27	24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3454	547230	5215364	1.0	45	6.1	42	24	0.08	2.6	0.62	8.5	24	48	11968	118	1.7	21	4.4	1.0	1.3	4632	0.25	110	2.2	67
3455	548263	5212777	2.0	60	6.4	26	24	0.08	7.5	0.64	8.2	17	35	4325	129	1.8	24	6.7	0.8	1.7	4236	0.25	70	1.3	45
3456	548341	5211871	5.0	52	6.2	28	24	0.03	2.6	0.82	8.3	20	30	5303	119	1.8	19	4.5	0.6	0.2	4563	0.25	77	1.0	70
3457	549010	5210908	2.0	55	6.1	26	24	0.10	3.3	0.97	14.3	29	57	13299	83	3.9	28	4.2	1.2	0.8	4483	0.25	99	2.2	116
3458	550467	5209883	6.0	NS	6.2	51	24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3459	551162	5207895	13.0	41	6.7	30	24	0.25	4.8	0.90	12.7	27	82	8443	159	2.0	29	11.2	1.3	1.0	5036	0.25	52	1.3	104
3460	551705	5206743	5.0	38	6.7	29	24	0.15	5.1	0.76	23.3	36	70	43484	265	2.8	44	6.6	1.1	1.0	3439	0.25	68	1.5	166
3461	551112	5206186	4.0	31	6.7	37	24	0.09	3.2	0.72	6.1	33	44	8389	124	1.1	31	7.6	0.9	0.8	3723	0.25	137	2.0	66
3462	553538	5205186	10.0	NS	6.8	37	23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3463	555549	5201757	2.0	60	6.8	40	23	0.11	5.6	0.55	3.8	15	37	5107	35	3.0	17	5.5	2.0	0.9	9913	0.25	66	4.0	49
3464	555996	5202614	3.0	66	6.7	20	24	0.14	5.9	0.91	13.0	31	48	12520	53	4.5	24	5.0	3.4	2.0	9591	0.25	96	5.0	122
3465	556586	5203559	4.0	32	6.7	20	24	0.10	3.9	0.74	11.4	40	50	17106	258	1.5	33	6.4	1.1	1.0	5747	0.25	84	1.8	111
3466	556923	5204578	3.0	50	6.2	28	24	0.28	3.1	0.73	7.2	38	95	4187	116	1.1	23	6.6	1.5	2.4	3926	0.25	105	2.2	67
3467	556885	5205172	2.0	45	6.1	31	25	0.14	2.6	0.49	7.2	19	53	2646	26	0.9	25	4.8	1.1	0.7	4475	0.25	73	1.8	67
3468	557496	5204790	6.0	26	6.3	31	24	0.16	11.0	0.76	17.7	43	51	34856	462	2.4	32	8.2	1.6	1.2	2835	0.25	193	2.5	115
3469	558028	5205192	2.0	53	6.5	30	24	0.07	4.5	0.83	11.9	27	58	13728	217	1.9	28	4.4	1.9	0.9	4831	0.25	94	2.6	100
3470	558812	5205285	2.0	55	6.6	31	24	0.04	2.4	0.83	7.5	16	51	3737	71	1.1	27	3.5	1.6	0.7	4470	0.25	88	1.5	38
3471	557978	5203411	7.0	56	6.7	24	24	0.21	5.8	1.08	4.2	16	53	6594	75	1.2	35	24.2	1.4	0.7	8221	0.85	64	0.8	85
3472	560105	5203632	19.0	36	6.7	22	23	0.17	6.7	1.15	18.2	42	77	25815	456	1.1	36	23.0	1.4	2.2	4454	0.64	121	1.2	121
3473	559786	5205247	19.0	37	6.7	38	24	0.31	13.0	1.23	15.5	31	89	16623	302	1.2	38	47.7	4.4	2.5	9978	1.45	98	2.8	91
3474	561038	5204050	4.0	60	6.7	22	24	0.11	2.5	0.84	4.6	12	43	6808	70	0.9	18	4.3	0.2	0.2	4526	0.25	61	0.5	67
3475	561625	5203687	6.0	61	6.5	19	24	0.10	2.9	0.86	3.8	14	53	5248	61	0.8	18	4.4	0.5	2.1	4196	0.25	84	0.5	59
3476	561444	5204216	1.0	55	6.4	24	24	0.08	3.4	0.77	6.9	13	39	3785	64	0.8	25	7.4	0.6	1.6	5352	0.25	87	0.6	62
3477	563426	5204959	18.0	50	6.4	24	24	0.33	17.0	2.59	34.3	26	95	16123	298	1.3	95	95.3	4.5	4.9	10786	2.58	134	1.0	152
3478	564026	5203955	7.0	54	6.3	19	24	0.20	4.7	0.89	7.1	14	60	9365	105	0.8	40	18.9	1.5	2.2	8568	0.72	97	0.7	68
3479	565605	5203255	20.0	NS	6.5	34	24	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3480	566538	5201867	16.0	56	6.6	23	24	0.35	5.5	1.15	10.8	28	94	12718	154	1.3	39	26.1	3.0	1.9	9194	0.73	83	1.1	90
3481	566774	5201230	3.0	53	6.5	NM	24	0.06	2.0	0.43	3.6	7	50	1365	22	0.8	19	4.2	0.9	0.2	4308	0.25	58	0.6	32
3482	567210	5200226	9.0	67	6.4	29	24	0.13	1.9	1.10	12.2	12	73	8647	460	1.0	19	4.3	0.2	0.2	4812	0.25	55	0.4	105
3483	566825	5199086	5.0	55	6.3	20	24	0.23	4.8	0.88	5.9	14	83	9923	91	0.8	36	18.3	1.8	2.2	7354	0.76	90	0.6	70
3484	565782	5197340	3.0	53	6.2	25	24	0.14	2.2	0.75	10.7	28	74	10360	165	1.3	27	3.6	1.6	1.0	4711	0.25	91	1.3	104
3485	566413	5207022	37.0	30	6.8	59	22	0.26	25.0	1.72	26.2	46	89	50524	13746	6.0	65	47.5	3.4	3.0	3866	1.52	128	3.3	160
3486	564130	5208515	10.0	25	7.1	28	22	0.13	4.0	0.69	28.3	41	41	27258	918	1.5	29	6.8	1.1	1.1	1735	0.25	223	1.3	101
3487	563382	5208797	14.0	40	6.9	23	23	0.24	11.0	1.07	17.0	29	69	19202	387	1.3	39	51.6	2.5	1.6	9879	1.58	128	1.3	82
3488	562481	5209392	10.0	41	6.9	27	23	0.16	4.7	0.62	10.4	36	68	18063	300	2.2	23	12.6	2.0	2.4	4694	0.25	110	2.2	73
3489	562976	5209981	4.0	53	6.8	22	22	0.11	4.4	0.60	3.9	14	57	3893	65	1.0	19	7.5	1.0	0.2	5546	0.25	58	0.8	63
3490	561775	5210436	10.0	NS	6.9	54	23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3491	560348	5210622	10.0	40	7.1	53	22	0.16	12.0	1.16	28.0	52	54	46064	818	3.4	35	15.7	2.0	1.4	3529	0.25	129	3.6	137
3492	559623	5209696	2.0	54	7.1	29	22	0.04	2.8	0.39	3.3	17	28	4597	48	2.4	15	3.4	1.0	1.8	3667	0.25	61	5.4	16
3493	558717	5210090	8.0	38	7.0	30	23	0.16	4.6	0.91	7.7	43	56	15324	324	2.1	26	19.1	1.6	2.1	4553	0.51	108	4.8	83
3494	559101	5211042	7.0	37	7.0	49	22	0.09	9.4	0.90	28.7	41	38	31718	576	2.4	38	18.3	1.6	2.5	3981	0.25	125	3.0	126
3495	557906	5211407	2.0	53	7.0	47	22	0.06	2.9	0.61	9.9	26	44	7635	97	1.9	27	3.6	1.2	0.8	5503	0.25	64	3.5	54
3496	559709	5212556	7.0	39	7.0	23	23	0.05	4.1	0.63	12.2	37	29	14172	166	1.7	20	8.2	1.0	0.9	4404	0.25	114	2.5	67
3497	559069	5213800	7.0	45	5.4	20	21	0.08	1.5	0.33	3.7	21	17	6918	98	0.8	12	5.2	0.2	0.2	2226	0.25	59	2.0	24
3498	559586	5214172	1.0	58	4.7	25	20	0.04	1.4	0.44	2.7	8	15	1932	39	0.5	12	5.5	0.2	0.2	3892	0.25	58	3.0	10
3499	558308	5215068	1.0	45	5.0	19	20	0.04	3.0	0.52	4.1	23	18	5534	50	1.2	19	7.4	0.7	0.8	3298	0.25	74	2.7	26
3500	559215	5215855	12.0	50	4.8	22	22	0.12	6.8	1.01	10.3	36	38	11120	135	1.0	31	20.2	0.9	0.7	4757	0.57	102	3.1	81
3501	558936	5216516	11.0	54	4.9	22	23	0.18	8.6	1.57	14.0	24	31	15841	230	1.6	29	39.4	1.1	1.9	7402	1.24	73	2.2	91
3502	557689	5216138	1.0	36	4.8	21	22	0.07	4.5	0.40	9.8	30	24	19104	98	1.1	24	14.2	1.0	0.7	3638	0.25	81	2.5	30
3503	556183	5216145	4.0	50	4.6	26	22	0.03	2.0	0.51	3.0	16	36	2951	46	0.9	17	4.0	0.6	0.6	3671	0.25	63	1.8	29
3504	555685	5216497	14.0	62	4.9	24	23	0.24	6.7	0.58	11.8	34	57	24826	223	1.8	25	21.1	1.0	0.9	10132	0.56	161	2.3	61
3505	556658	5217192	5.0	70	4.5	26	22	0.08	2.7	1.01	2.9	8	26	3167	64	1.6	16	6.1	0.6	0.2	4070	0.25	44	1.7	63
3506	557024	5217564	8.0	74	4.4	27	21	0.18	3.8	1.00	2.8	7	43	4312	49	1.7	25	8.8	1.4	0.9	4487	0.25	40	1.0	51
3507	558010	5218025	7.0	44	4.5	28	22	0.12	3.3	0.65	3.1	13	22	3699	40	0.7	18	17.2	INF	INF	3016	0.25	56	1.8	33

Site	Easting	Northing	Lake	LOI	pH	Cond	Temp	Ag	As	Cd	Co	Cr	Cu	Fe	Mn	Mo	Ni	Pb	Pd	Pt	S	Sn	Ti	U	Zn
Number	Method----------------->		Depth	Grav.	YSI	YSI	YSI	ICP-MS	INAA	ICP-MS	ICP-MS	ICP-OES	ICP-OES	ICP-OES	ICP-OES	ICP-MS	ICP-OES	ICP-MS	FAICPMS	FAICPMS	ICP-OES	ICP-MS	ICP-OES	ICP-MS	ICP-OES
	Detection Limit-------->			0.1	0.01	1	0.01	0.02	0.5	0.050	0.05	4	5	5	1	0.10	5	0.05	0.3	0.3	30	0.50	3	0.05	2
	Units----------------->		m	%		µS/cm	°C	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm
	(NAD 83 Zone 17)																								
3508	558432	5217872	3.0	67	4.3	35	22	0.08	1.5	0.56	3.2	13	25	1392	29	1.0	22	4.8	0.2	0.2	3631	0.25	69	1.7	39
3509	559150	5217853	1.0	44	4.7	21	20	0.06	6.5	0.52	7.1	16	17	8755	71	0.8	15	15.5	0.7	1.3	2741	0.25	46	1.9	17
3510	558142	5219443	2.0	41	4.7	22	21	0.05	2.2	0.36	3.0	12	16	2511	30	0.7	16	5.7	0.2	0.2	2832	0.25	57	1.5	13
3511	557640	5219018	1.0	38	4.7	25	21	0.05	3.6	0.48	4.8	28	31	9624	29	1.3	22	6.4	0.6	0.2	3232	0.25	84	4.1	33
3512	556671	5218777	2.0	44	4.6	26	22	0.06	1.6	0.40	3.0	12	20	2943	30	0.7	18	4.5	0.5	1.4	2806	0.25	93	1.9	29
3513	556404	5218375	2.0	44	4.4	29	21	0.05	1.4	0.58	2.4	12	17	2229	29	0.7	19	5.8	0.2	0.2	2684	0.25	77	2.3	20
3514	555885	5217934	7.0	64	4.5	29	21	0.14	3.9	0.76	2.3	10	30	5838	61	1.0	21	8.8	2.4	2.1	4699	0.25	37	1.1	63
3515	555568	5218259	4.0	65	4.4	28	21	0.08	2.2	0.81	2.5	10	28	6508	73	1.5	12	3.0	1.3	1.5	6704	0.25	45	1.5	61
3516	555533	5219242	10.0	53	4.7	25	22	0.17	5.6	0.80	6.2	20	37	13628	98	2.2	26	14.4	0.9	3.8	6591	0.25	60	2.5	56
3517	556781	5219401	6.0	48	4.5	28	22	0.08	1.8	0.49	2.2	12	19	1843	46	0.7	12	6.9	0.2	0.2	3189	0.25	44	1.7	29
3518	556732	5220229	6.0	92	4.4	34	17	0.07	1.1	0.33	3.1	6	19	2620	17	0.4	12	6.3	0.2	0.2	2533	0.25	51	2.6	8
3519	557243	5220920	1.0	NS	5.5	21	18	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3520	554611	5220957	6.0	42	5.5	22	22	0.09	3.1	0.91	5.0	24	31	7838	125	1.9	23	11.8	0.9	2.0	4045	0.25	63	4.6	55
3521	555095	5220058	1.0	37	4.6	28	21	0.04	1.4	0.33	1.7	9	15	2480	28	0.8	13	5.2	0.2	0.2	2259	0.25	49	1.4	15
3522	553892	5216597	36.0	NS	6.1	37	22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3523	551894	5215314	1.0	51	6.2	29	21	0.09	3.1	0.55	5.6	15	52	3302	39	2.8	21	4.9	0.8	0.2	5955	0.25	74	5.1	52
3524	550345	5213922	4.0	21	6.1	27	22	0.07	3.7	0.67	11.5	42	22	15872	362	0.9	30	5.9	0.9	1.8	1534	0.25	343	1.4	104
3525	551755	5214105	4.0	44	6.2	27	22	0.18	3.6	0.89	5.4	20	39	8166	84	1.3	27	23.0	1.3	2.2	3946	0.60	118	1.7	50
3526	553364	5214586	8.0	60	6.1	22	22	0.16	19.0	1.36	12.1	30	86	8861	370	3.1	33	28.3	2.2	1.6	5571	0.25	75	2.8	87
3527	553037	5213525	5.0	54	6.1	31	22	0.22	7.1	0.67	6.9	20	65	7618	100	2.2	19	14.4	1.8	2.8	7174	0.25	77	3.2	60
3528	553506	5212236	1.0	53	6.3	32	21	0.11	5.0	0.54	5.4	13	38	3580	68	1.7	28	12.1	1.3	2.0	4877	0.25	93	3.3	40
3529	554321	5213081	7.0	NS	6.5	36	22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3530	555295	5214088	19.0	NS	6.6	36	22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3531	554611	5211608	6.0	49	6.6	29	22	0.16	2.5	0.47	4.6	14	64	2622	132	2.8	14	4.4	1.9	1.1	4164	0.25	57	6.1	50
3532	556152	5211612	4.0	46	6.5	24	23	0.06	2.9	0.53	5.9	36	30	8953	117	1.1	26	10.8	1.7	0.9	3378	0.25	200	1.1	81
3533	556369	5209588	13.0	NS	6.5	36	23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3534	554211	5210080	25.0	45	6.7	35	23	0.17	9.0	1.32	8.6	25	71	12226	300	2.0	43	39.3	4.0	3.0	6946	0.56	83	1.9	96
3535	552830	5209765	38.0	NS	6.8	35	23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3536	551855	5211240	6.0	NS	6.8	54	23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3537	551935	5209178	11.0	53	7.0	26	23	0.19	4.2	0.72	15.6	31	57	9444	146	1.9	32	10.9	0.7	0.2	5219	0.25	141	1.2	100
3538	551878	5208255	4.0	28	6.8	25	23	0.15	3.9	0.44	28.3	42	66	17496	168	2.2	41	7.2	1.3	0.9	2721	0.25	162	2.5	119
3539	552009	5207543	5.0	25	6.7	30	24	0.16	4.7	0.84	18.8	40	53	14452	353	1.7	47	10.9	1.0	1.0	3570	0.25	190	2.0	113
3540	552039	5206855	2.0	63	6.6	17	22	0.11	3.7	0.62	11.8	16	34	9092	61	1.5	31	4.6	0.8	0.2	5417	0.25	74	0.7	107
3541	552646	5206841	4.0	NS	6.5	36	23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3542	552867	5208113	20.0	55	6.7	28	23	0.23	5.4	0.83	23.7	34	71	18016	648	2.8	31	14.7	1.5	1.0	5767	0.25	125	1.8	133
3543	553938	5207368	16.0	55	6.6	29	23	0.27	7.7	1.50	10.0	30	79	8148	274	4.4	41	35.3	1.9	1.3	8901	0.25	86	2.4	127
3544	554602	5208079	13.0	NS	6.7	36	23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3545	555238	5207452	21.0	16	6.9	37	23	0.11	8.3	0.66	12.6	53	43	27247	1010	1.3	43	15.4	1.3	1.1	1388	0.25	389	2.7	110
3546	557644	5206742	15.0	30	6.9	33	23	0.21	11.0	0.88	6.9	37	59	20511	267	1.5	32	32.4	1.8	2.0	5839	0.73	150	1.9	91
3547	558359	5207230	10.0	29	7.0	33	23	0.20	13.0	1.48	19.7	52	89	51761	2763	6.6	52	8.1	2.6	2.7	2113	0.25	163	4.6	197
3548	557761	5207914	7.0	66	6.9	34	22	0.18	8.2	1.51	7.2	14	88	5464	62	1.6	56	64.4	3.0	1.6	10220	1.66	68	1.4	117
3549	559109	5208276	1.0	69	6.6	19	21	0.15	2.2	0.83	2.3	10	69	7083	118	1.4	14	3.2	0.2	0.2	5918	0.25	48	0.7	98
3550	559307	5209101	6.0	40	6.5	28	23	0.13	5.1	0.57	11.3	32	45	22906	259	1.1	23	12.1	0.8	0.2	4534	0.25	102	1.4	79
3551	558430	5209080	3.0	30	6.6	23	23	0.08	3.5	0.31	5.3	35	43	7676	148	0.8	21	11.4	1.5	1.2	2599	0.25	129	2.1	53
3552	560717	5209188	3.0	50	6.6	23	22	0.10	5.6	0.86	10.6	52	58	19428	499	4.8	28	4.3	2.1	1.1	5561	0.25	105	5.6	132
3553	561392	5208578	5.0	59	6.6	24	22	0.09	1.5	0.47	5.5	11	76	2066	45	0.8	27	3.4	0.2	0.2	4803	0.25	64	0.6	61
3554	560913	5207827	17.0	41	6.7	31	23	0.26	13.0	1.39	61.9	54	104	70686	13428	4.6	59	10.2	1.8	1.5	2678	0.25	156	3.0	213
3555	559827	5207234	12.0	35	NM	NM	NM	0.17	11.0	1.16	31.2	44	73	43234	1508	3.5	40	14.2	1.5	0.8	2721	0.25	146	2.5	157
3556	559299	5206775	3.0	53	6.7	53	21	0.13	24.0	1.22	7.5	10	95	5531	64	3.4	21	4.0	2.0	0.2	9911	0.25	60	3.0	125
3557	561184	5207081	1.0	NS	6.7	47	21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3558	561238	5206603	2.0	NS	6.8	43	22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3559	562521	5207266	5.0	49	7.0	23	22	0.10	2.2	0.64	4.4	17	53	2765	74	0.9	19	3.8	0.2	0.2	4171	0.25	85	1.0	57
3560	563370	5208218	7.0	52	6.8	22	22	0.10	2.9	0.56	9.6	30	62	7089	184	0.8	23	9.5	1.1	0.2	5175	0.25	110	1.3	63
3561	563804	5207306	10.0	50	6.8	25	22	0.23	6.1	1.07	17.7	24	62	10802	319	1.3	33	30.6	2.0	2.6	6529	0.88	120	1.2	82
3562	562948	5206262	7.0	39	6.8	23	22	0.14	2.5	0.50	10.5	31	40	8709	212	0.6	24	7.8	0.8	1.9	2868	0.25	166	0.9	65
3563	563887	5202214	5.0	58	6.7	36	23	0.15	5.0	0.72	10.1	35	86	8932	137	2.6	37	5.5	2.7	1.3	5537	0.25	121	2.9	92
3564	564441	5201060	14.0	31	6.9	37	23	0.10	5.0	0.54	7.2	35	57	10225	315	2.1	30	7.8	2.3	1.2	3122	0.25	109	1.9	84
3565	562671	5201137	4.0	40	6.9	37	23	0.15	6.2	0.67	13.9	40	84	15919	232	2.7	34	5.4	2.8	1.9	4363	0.25	184	3.1	96
3566	561565	5201240	3.0	NS	7.0	37	23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3567	560752	5202070	1.0	42	7.0	34	22	0.08	2.1	0.34	4.1	14	51	2612	32	1.3	23	3.2	0.9	0.5	4338	0.25	76	2.1	35
3568	560808	5201050	2.0	52	6.9	37	22	0.14	2.5	0.82	4.2	18	67	2840	48	1.7	28	10.8	INF	INF	6719	0.25	78	3.3	51
3569	559811	5201340	2.0	53	6.9	27	22	0.10	1.8	0.29	2.3	15	51	1823	35	0.6	21	2.0	0.2	0.2	3359	0.25	75	1.0	10
3570	558906	5201405	2.0	43	6.6	23	22	0.09	6.4	0.64	6.0	16	44	4522	147	1.6	22	8.5	0.7	0.2	5503	0.25	90	0.9	57
3571	559526	5199630	6.0	55	6.6	33	23	0.14	3.0	0.53	6.2	20	71	3917	82	1.0	25	4.5	4.5	1.7	5281	0.25	91	1.0	55
3572	560408	5199710	18.0	35	6.8	35	23	0.20	6.4	0.91	18.1	44	67	26532	799	2.4	33	11.3	2.2	2.4	3894	0.25	144	2.1	126
3573	562012	5198915	37.0	30	7.1	37	23	0.22	12.0	1.19	12.6	40	91	16080	1971	4.1	48	17.1	3.6	2.3	2740	0.25	88	2.4	145
3574	564322	5198246	6.0	47	6.9	21	22	0.09	1.4	0.36	3.5	12	41	1807	50	0.7	21	3.6	0.5	0.5	3917	0.25	80	0.6	34
3575	563748	5196555	23.0	NS	6.9	32	23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3576	564629	5196883	29.0	38	6.9	32	23	0.50	23.0	2.24	15.7	41	129	12378	362	1.7	94	125.4	5.9	4.1	5545	3.26	140	1.2	173
3577	609998	5194630	4.0	24	7.0	33	23	0.12	1.5	0.51	9.6	46	18	11622	197	0.3	28	4.2	0.7	0.8	1597	0.25	267	1.4	72
3578	610791	5195226	5.0	37	6.9	29	23	0.15	1.1	0.55	8.0	51	24	11653	177	0.4	31	4.8	0.2	0.2	2431	0.25	243	1.2	75
3579	612038	5195369	5.0	53	6.8	27	22	0.17	1.3	0.68	3.5	27	37	4752	100	1.3	24	3.7	0.2	0.2	4209	0.25	113	1.4	63
3580	613301	5195820	6.0	48	6.7	25	23	0.18	1.3	0.53	5.0	39	27	6688	93	0.6	24	4.7	0.2	0.2	3159	0.25	165	1.4	49
3581	611930	5197137	4.0	55	6.6	23	23	0.14	1.1	0.59	3.1	28	26	3829	62	0.6	20	3.0	0.2	0.2	3376	0.25	101	1.1	47
3582	613667	5197605	4.0	43	6.4	23	23	0.17	1.4	0.49	6.3	49	32	7739	100	0.5	32	3.6	0.2	0.2	3936	0.25	161	1.7	68
3583	615438	5199843	19.0	26	6.6	28	23	0.12	1.6	0.37	17.8	57	30	14322	348	1.2	33	3.6	0.2	0.2	1813	0.25	328	2.9	82
3584	616879	5200421	11.0	49	6.5	25	23	0.22	1.1	0.55	5.3	29	25	5290	111	1.0	19	5.4	0.5	0.5	3373	0.25	124	1.2	53
3585	617585	5200989	7.0	53	6.0	23	22	0.20	1.8	0.54	3.3	24	32	10514	143	1.6	17	3.2	0.4	1.1	5095	0.25	87	1.1	64
3586	619565	5202602	4.0	52	5.8	19	22	0.12	3.1	0.66	3.0	18	24	2529	58	0.8	21	11.1	0.2	0.2	4485	0.25	75	1.1	55
3587	618210	5202910	31.0	53	5.9	21	23	0.21	2.4	0.47	6.4	54	51	19555	224	1.4	21	5.2	0.2	0.2	5383	0.25	176	2.1	66
3588	616845	5203256	1.0	40	5.6	16	21	0.12	0.9	0.27	3.1	45	24	4842	75	0.2	19	8.3	0.7	0.2	1874	0.25	74	3.2	29
3589	617981	5204149	2.0	52	5.6	21	23	0.09	1.0	0.46	4.2	20	20	2545	27	0.8	29	4.0	0.2	0.2	3491	0.25	107	1.5	33
3590	618764	5204734	3.0	42	5.6	17	21	0.02	0.3	0.43	1.7	12	14	1578	41	0.6	11	1.9	0.5	0.5	2573	0.25	85	0.6	23
3591	617722	5205765	2.0	55	5.5	21	23	0.01	0.6	0.39	1.7	8	16	819	43	0.9	14	2.8	0.2	0.2	3390	0.25	57	0.7	22
3592	619016	5205900	2.0	60	5.7	19	21	0.09	0.9	0.70	1.8	11	29	3531	80	1.4	12	1.7	0.2	0.2	3661	0.25	72	0.7	78
3593	620282	5205497	16.0	55	5.9	21	23	0.16	2.2	0.73	3.3	27	30	8287	70	1.0	23	10.1	0.2	0.2	4140	0.25	147	1.2	43
3594	621306	5205854	19.0	53	6.0	23	23	0.19	1.9	0.56	3.7	33	29	5989	111	0.6	19	8.3	0.2	0.2	3031	0.25	185	1.1	38
3595	621959	5205272	5.0	57	6.0	22	23	0.12	2.4	0.86	3.9	20	22	3415	63	0.8	23	12.2	0.2	0.2	4464	0.25	98	0.9	51
3596	622393	5205979	3.0	54	5.9	20	23	0.08	1.3	0.51	3.2	17	27	6080	46	2.6	23	4.6	0.2	0.2	5029	0.25	75	0.8	54
3597	623302	5206343	1.0	61	5.9	19	21	0.09	1.2	0.64	2.0	15	24	1751	14	0.4	22	10.2	0.2	0.2	4054	0.25	84	1.3	17
3598	623660	5205371	5.0	57	5.8	18	22	0.02	0.6	0.46	2.3	11	17	1687	31	0.7	14	1.0	0.2	0.2	3940	0.25	88	0.8	26
3599	623808	5205204	1.0	76	5.9	17	22	0.05	1.4	0.56	2.2	15	20	3724	42	0.5	15	4.4	0.2	0.2	4214	0.25	116	1.3	12
3600	623753	5204328	5.0	55	5.9	20	23	0.12	1.7	0.62	3.2	17	24	5278	61	1.3	19	8.0	0.2	0.2	4523	0.25	91	0.8	46
3601	623286	5204598	11.0	75	5.9	17	23	0.12	1.4	0.66	3.4	18	32	6460	144	1.7	15	2.7	0.2	0.2	6195	0.25	78	0.8	85
3602	621407	5204502	3.0	56	5.7	16	23	0.06	0.8	0.33	2.3	14	22	2108	44	0.5	10	1.8	0.2	0.2	3157	0.25	69	0.6	24
3603	620872	5203980	9.0	50	5.7	19	23	0.11	1.8	0.51	3.4	24	20	4551	64	0.7	17	6.1	0.2	0.2	3237	0.25	124	1.0	39

Site	Easting	Northing	Lake	LOI	pH	Cond	Temp	Ag	As	Cd	Co	Cr	Cu	Fe	Mn	Mo	Ni	Pb	Pd	Pt	S	Sn	Ti	U	Zn
Number	Method------------------>		Depth	Grav.	YSI	YSI	YSI	ICP-MS	INAA	ICP-MS	ICP-MS	ICP-OES	ICP-OES	ICP-OES	ICP-OES	ICP-MS	ICP-OES	ICP-MS	FAICPMS	FAICPMS	ICP-OES	ICP-MS	ICP-OES	ICP-MS	ICP-OES
	Detection Limit--------->			0.1	0.01	1	0.01	0.02	0.5	0.050	0.05	4	5	5	1	0.10	5	0.05	0.3	0.3	30	0.50	3	0.05	2
	Units-------------------->		m	%		µS/cm	°C	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm
	(NAD 83 Zone 17)																								
3604	620309	5202934	7.0	56	5.6	19	23	0.10	1.2	0.63	3.0	22	23	3853	53	0.7	18	2.7	0.3	1.3	3632	0.25	104	0.8	42
3605	621324	5202727	5.0	46	5.5	19	23	0.12	1.4	0.44	3.6	31	24	4441	62	0.7	21	3.6	INF	INF	2578	0.25	135	1.1	38
3606	621875	5203533	5.0	57	5.7	17	22	0.09	1.1	0.62	2.8	19	28	5035	62	0.9	20	2.7	0.2	0.2	4339	0.25	98	0.7	64
3607	622614	5202787	3.0	67	5.7	18	21	0.06	0.6	0.57	2.0	9	23	2081	62	0.8	10	1.5	0.2	0.2	3777	0.25	86	0.5	30
3608	624054	5202799	6.0	65	5.7	16	23	0.09	1.5	0.45	2.9	15	25	5536	78	1.2	16	4.1	0.5	0.5	4395	0.25	89	0.6	39
3609	624417	5202069	2.0	62	5.5	17	23	0.05	1.0	0.59	3.5	32	25	8065	116	1.1	22	3.1	0.2	0.2	3312	0.25	204	1.0	72
3610	623540	5202435	4.0	69	5.2	21	23	0.04	0.7	0.35	2.6	19	26	3675	51	0.7	16	2.1	0.2	0.2	3828	0.25	159	0.9	35
3611	623009	5202026	6.0	57	5.4	18	22	0.10	1.4	0.31	3.8	25	24	7810	75	0.8	19	4.9	0.5	0.5	3706	0.25	179	0.7	44
3612	621909	5202147	5.0	75	4.9	17	22	0.05	0.9	0.59	2.1	9	23	3326	56	0.8	13	1.4	0.2	0.2	4840	0.25	69	0.4	66
3613	621474	5202084	2.0	51	5.0	19	23	0.13	2.7	0.94	4.3	25	20	4689	61	0.7	26	15.4	0.2	0.2	4986	0.60	133	0.9	56
3614	621816	5201527	5.0	54	5.3	18	23	0.16	4.2	1.40	5.3	20	26	5805	80	0.9	27	28.2	0.2	0.2	5390	1.13	125	0.9	85
3615	622391	5200991	3.0	57	5.6	19	23	0.23	11.0	1.92	9.4	30	47	12326	111	1.5	60	77.1	2.1	1.0	14973	2.42	140	1.1	127
3616	622142	5200086	5.0	52	5.7	19	23	0.09	1.2	0.35	5.0	35	20	5834	85	0.6	23	5.3	0.2	0.2	3150	0.25	178	1.1	41
3617	621573	5200396	3.0	31	5.8	19	23	0.07	0.7	0.29	6.9	38	17	11458	107	0.6	24	2.8	0.2	0.2	2296	0.25	266	1.0	73
3618	620906	5200350	18.0	63	6.2	22	24	0.11	2.2	0.46	10.7	37	39	12875	316	1.3	27	2.9	0.2	0.2	7334	0.25	113	1.3	74
3619	620072	5201180	1.0	20	5.9	15	22	0.11	1.4	0.29	7.4	35	11	8501	124	0.3	25	9.3	0.2	0.2	1684	0.25	386	0.8	43
3620	617980	5199938	20.0	45	6.0	25	23	0.21	1.2	0.44	10.0	38	26	7680	279	0.9	20	4.9	0.5	0.5	2487	0.25	144	1.3	43
3621	618595	5199432	4.0	46	6.1	26	23	0.13	1.2	0.62	6.8	31	24	4969	124	0.7	20	4.4	0.2	0.2	3062	0.25	122	1.4	56
3622	619499	5199045	1.0	54	6.1	25	23	0.07	1.7	0.68	7.2	29	21	4072	117	0.7	26	10.9	0.2	0.2	3894	0.25	144	1.4	33
3623	620214	5199509	4.0	44	5.9	22	22	0.10	2.1	0.80	6.3	32	21	7444	101	0.8	23	10.6	0.5	0.5	4603	0.25	125	1.4	62
3624	621031	5199483	8.0	62	5.8	19	23	0.09	1.2	0.55	3.2	26	29	7440	107	1.2	21	3.6	0.2	0.2	4333	0.25	81	0.9	67
3625	621063	5198151	1.0	56	6.0	23	23	0.07	0.9	0.71	6.9	23	18	5810	125	0.8	21	9.8	0.4	1.2	3979	0.25	131	1.4	37
3626	622113	5198619	1.0	29	6.0	19	23	0.07	1.8	0.40	11.0	37	16	12396	158	0.4	27	13.6	0.6	1.2	2276	0.25	511	1.1	49
3627	623424	5197697	1.0	71	6.0	22	23	0.10	1.7	0.58	4.6	15	28	10417	183	1.9	19	7.7	0.2	0.2	6494	0.25	73	1.1	90
3628	623482	5197432	5.0	72	6.0	20	23	0.04	1.0	0.60	4.4	12	24	8907	142	1.3	23	2.7	0.2	0.2	5613	0.25	92	0.4	66
3629	623887	5197509	2.0	57	6.0	21	23	0.11	2.1	0.77	6.6	32	24	5516	88	0.9	33	9.1	0.2	0.6	4409	0.25	176	1.9	65
3630	624306	5198876	5.0	42	5.9	18	23	0.06	0.8	0.50	5.8	41	21	8659	91	0.5	26	3.0	0.5	1.5	2429	0.25	342	1.2	67
3631	625054	5198202	3.0	57	5.4	17	23	0.06	1.1	0.46	3.9	31	24	4202	59	0.5	27	3.9	0.2	0.2	3177	0.25	150	1.3	53
3632	625700	5198484	2.0	65	5.5	18	23	0.11	1.0	0.68	7.0	38	37	4661	74	1.3	42	3.4	0.2	0.2	4177	0.25	214	1.8	81
3633	625083	5198898	4.0	59	5.6	18	23	0.07	1.8	0.78	8.6	62	32	11082	178	1.1	39	6.3	0.9	0.2	5067	0.25	165	2.2	82
3634	626430	5198006	5.0	58	5.7	19	23	0.10	1.8	0.50	3.3	19	24	3967	48	0.9	19	4.1	0.2	0.2	4533	0.25	111	1.2	39
3635	626480	5197346	8.0	53	5.9	26	23	0.14	1.1	0.44	9.9	41	27	9907	232	1.6	21	5.7	0.2	0.8	4062	0.25	240	2.1	62
3636	627570	5197814	2.0	55	6.1	23	23	0.12	1.1	0.42	3.6	23	31	2789	56	1.1	27	3.1	0.2	0.2	3316	0.25	101	1.6	35
3637	627884	5196988	10.0	52	6.1	21	23	0.12	1.3	0.69	8.1	37	31	6400	211	0.9	18	6.7	INF	INF	3621	0.25	133	3.1	48
3638	628431	5196956	2.0	58	6.0	24	23	0.09	1.6	0.74	4.5	31	28	3969	60	1.3	24	4.4	0.2	0.2	4402	0.25	123	3.5	81
3639	627091	5196083	1.0	55	5.2	21	23	0.07	1.5	0.46	3.3	30	28	3541	34	0.8	27	3.5	0.2	0.2	3017	0.25	102	1.7	48
3640	627595	5195591	6.0	74	4.4	31	22	0.07	1.0	0.51	2.1	8	28	3582	56	2.1	9	1.1	0.2	0.2	5152	0.25	81	1.1	44
3641	625223	5195526	7.0	42	5.4	24	23	0.10	2.1	0.78	12.6	50	25	13732	236	0.7	32	15.1	0.2	0.2	3460	0.96	301	1.6	84
3642	623847	5195343	11.0	61	5.9	21	23	0.12	3.3	0.78	9.5	34	38	12676	251	1.1	22	15.9	0.2	0.2	6992	1.01	107	1.1	88
3643	622749	5195511	6.0	51	5.8	18	22	0.12	1.1	0.43	2.4	16	28	5847	78	0.9	16	3.3	0.2	0.2	4347	0.25	91	0.9	49
3644	620462	5196688	5.0	48	5.6	19	23	0.11	1.7	0.60	4.2	38	22	6855	74	0.6	24	4.6	0.2	0.2	2936	0.25	164	1.7	46
3645	618570	5196717	6.0	47	5.7	22	23	0.16	1.1	0.43	2.4	20	21	5654	58	0.9	17	2.5	0.5	0.5	3407	0.25	80	0.8	41
3646	618054	5197122	10.0	44	5.9	24	23	0.10	1.5	0.37	6.8	39	20	8121	152	1.1	25	4.3	INF	INF	2729	0.25	158	1.5	49
3647	617975	5198136	5.0	46	5.9	23	23	0.13	1.1	0.46	2.6	22	21	4454	71	0.6	16	3.4	0.3	1.3	3046	0.25	111	1.0	36
3648	617525	5198719	4.0	67	5.8	20	23	0.07	1.6	0.86	4.9	34	28	4879	82	0.8	26	4.1	0.2	0.2	3766	0.25	58	1.0	63
3649	617470	5198052	4.0	49	5.9	23	23	0.11	1.1	0.50	3.1	26	24	5405	85	0.7	20	3.8	0.2	0.2	3511	0.25	111	1.1	47
3650	616393	5198279	1.0	50	6.1	28	23	0.14	1.6	0.51	3.3	25	23	3263	46	0.5	24	4.6	0.2	0.2	3713	0.25	89	1.2	47
3651	617151	5197497	5.0	42	6.2	23	23	0.10	1.6	0.56	4.4	33	18	7877	107	0.7	21	4.4	0.2	0.2	2589	0.25	147	1.3	47
3652	617610	5196739	4.0	32	5.8	20	22	0.08	1.2	0.23	3.6	29	15	7325	90	1.1	18	3.7	0.2	0.2	1878	0.25	225	0.8	43
3653	617985	5195727	1.0	54	5.4	19	22	0.09	1.9	0.55	4.5	36	23	5670	57	0.8	29	6.9	0.2	0.2	3160	0.25	120	1.3	55
3654	616068	5196787	7.0	37	5.6	22	23	0.13	1.3	0.41	6.1	37	16	9355	118	0.3	26	5.5	0.2	0.2	2407	0.25	173	1.2	50
3655	616313	5194991	1.0	77	5.1	14	22	0.03	1.8	0.48	2.0	10	15	3554	63	0.8	16	3.7	0.2	0.2	4162	0.25	85	0.5	40
3656	616165	5194679	2.0	49	5.4	12	23	0.08	1.7	0.78	4.4	33	21	9647	136	0.9	21	4.9	0.2	0.2	2993	0.25	165	0.9	56
3657	591689	5188243	6.0	30	7.9	231	21	0.15	6.5	0.75	14.9	48	37	19461	320	0.8	35	16.8	0.9	0.7	4001	0.52	270	2.6	88
3658	591634	5187478	3.0	19	7.8	142	21	0.08	1.5	0.34	11.9	47	19	16960	353	0.2	30	5.0	0.7	0.8	1240	0.25	302	1.3	71
3659	591294	5186991	3.0	23	7.7	130	22	0.13	2.4	0.35	10.5	45	25	16009	342	0.7	29	4.0	0.2	0.7	1752	0.25	189	2.1	73
3660	590560	5185704	1.0	19	7.7	118	22	0.12	2.0	0.29	9.7	53	20	19257	365	0.5	34	5.6	0.8	1.1	1212	0.25	285	1.5	79
3661	590667	5184038	5.0	11	7.7	116	22	0.11	1.6	0.24	12.2	66	18	25279	440	0.4	44	4.9	0.2	0.9	786	0.25	430	1.4	85
3662	590720	5183284	2.0	41	7.6	198	22	0.11	2.5	0.38	7.0	32	30	10195	153	0.9	32	3.8	0.2	0.2	3371	0.25	178	1.1	67
3663	588345	5183107	3.0	NS	7.7	124	22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3664	589065	5181404	7.0	NS	7.6	129	22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3665	586015	5179211	2.0	9	7.7	71	23	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD
3666	587185	5178520	13.0	69	7.5	21	23	0.18	2.5	0.58	6.5	18	26	8421	554	0.8	19	6.1	0.2	0.2	4898	0.25	76	1.1	80
3667	587872	5177452	2.0	39	7.1	26	22	0.12	2.0	0.67	10.4	44	34	7937	210	1.0	29	3.9	0.9	0.9	2720	0.25	173	2.4	117
3668	587060	5174810	3.0	26	7.0	104	22	0.13	1.5	0.64	11.5	59	31	20477	358	0.9	36	6.2	0.7	0.9	2690	0.25	289	2.1	96
3669	586643	5173942	5.0	65	7.2	188	22	0.35	1.8	0.76	6.9	32	48	10203	131	1.2	28	4.3	0.2	0.2	6132	0.25	105	1.2	96
3670	586319	5173856	2.0	56	6.9	283	22	0.25	3.6	0.60	15.1	37	56	7914	103	1.7	38	4.4	1.1	0.5	6998	0.25	98	1.7	100
3671	584970	5173976	3.0	37	7.3	152	22	0.06	5.4	0.28	3.6	26	39	7335	80	1.9	23	3.6	1.3	0.8	7352	0.25	111	1.7	52
3672	587079	5172237	8.0	52	7.4	28	21	0.25	2.6	0.65	3.6	23	35	8032	84	1.3	19	3.4	0.2	0.2	4081	0.25	104	0.9	52
3673	587349	5170414	1.0	40	6.9	26	21	0.10	1.7	0.38	4.1	22	15	4081	61	0.9	18	7.0	0.2	0.2	2626	0.25	120	1.0	38
3674	590356	5168028	1.0	NS	6.7	44	21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3675	589769	5167272	6.0	49	6.7	39	22	0.10	1.4	1.57	11.3	29	25	8051	305	0.7	18	4.4	0.2	0.2	3358	0.25	141	1.8	97
3676	591725	5166898	10.0	56	6.9	35	23	0.26	2.5	1.04	12.2	33	34	9764	441	1.1	19	10.7	0.2	0.2	4040	0.25	185	1.6	95
3677	593595	5166656	8.0	55	6.9	35	23	0.13	1.3	1.18	12.1	35	25	11723	308	0.6	22	8.3	0.7	0.2	3573	0.25	175	1.8	96
3678	592324	5166020	7.0	48	6.7	24	22	0.19	1.4	1.06	3.2	18	26	4546	77	0.9	17	6.6	INF	INF	4787	0.25	91	1.3	65
3679	594918	5163948	4.0	45	6.6	24	22	0.10	1.3	0.70	8.0	43	24	9392	158	0.6	28	4.5	0.4	1.5	2599	0.25	256	1.0	79
3680	597043	5162818	10.0	45	6.6	24	22	0.16	2.3	0.73	5.8	36	24	10022	212	0.8	23	10.4	0.2	0.2	3149	0.25	150	0.8	66
3681	590657	5160033	6.0	69	6.4	19	22	0.06	1.3	0.76	3.0	15	28	3743	74	0.8	17	2.8	0.2	0.2	4956	0.25	81	0.8	59
3682	589668	5159872	1.0	46	5.8	18	21	0.10	1.4	0.36	2.4	24	52	2328	33	0.4	18	4.5	0.2	1.4	3771	0.25	106	1.4	12
3683	588242	5158804	8.0	49	5.5	20	23	0.22	1.0	0.55	3.7	25	32	9101	90	0.7	17	3.7	INF	INF	3843	0.25	146	0.8	57
3684	588352	5157193	9.0	51	5.8	23	23	0.25	2.2	0.65	7.3	39	39	10845	157	0.9	25	8.6	0.2	0.2	4090	0.25	188	1.0	74
3685	588707	5156699	4.0	56	5.9	22	23	0.14	1.3	0.66	2.4	15	34	2853	38	0.6	16	2.8	0.2	0.2	5216	0.25	83	0.6	66
3686	589905	5155606	5.0	31	6.0	26	23	0.12	1.8	0.54	7.7	47	26	13399	167	0.6	31	4.9	0.2	0.2	2756	0.25	298	1.1	72
3687	588190	5155444	5.0	37	6.2	21	23	0.11	1.5	0.54	9.5	44	24	11893	188	0.9	28	5.2	0.6	1.3	2465	0.25	307	1.3	73
3688	586751	5154152	1.0	24	6.1	23	22	0.28	3.7	0.44	11.2	56	16	11034	319	0.5	31	17.9	0.7	0.6	1497	0.66	122	1.7	62
3689	586494	5150561	2.0	NS	6.3	36	23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3690	587349	5152071	6.0	7	6.6	40	23	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD
3691	588752	5150505	1.0	31	6.7	59	22	0.06	1.7	0.27	3.7	29	11	8535	444	0.3	13	6.2	0.5	1.3	3056	0.25	202	1.7	28
3692	589973	5152732	1.0	NS	6.8	41	23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3693	591641	5154498	10.0	15	6.9	40	23	0.16	2.6	1.26	30.1	92	53	45830	1544	3.0	72	7.7	1.4	1.3	1175	0.25	615	4.3	177
3694	593354	5156760	1.0	55	6.8	32	22	0.41	4.8	1.11	20.6	85	31	16536	522	2.5	26	46.7	0.7	0.2	2977	0.25	191	3.0	92
3695	592859	5157216	1.0	39	6.8	28	22	0.30	1.0	0.37	5.2	59	41	5608	113	0.2	17	5.8	1.2	0.2	1659	0.25	62	8.6	33
3696	591648	5157439	1.0	37	6.6	31	22	0.14	2.5	0.95	8.8	32	23	5949	211	0.6	22	19.0	0.9	0.8	3608	0.66	129	2.1	65
3697	592819	5157979	4.0	55	6.6	40	21	0.13	1.4	1.03	3.0	14	40	4862	112	2.0	12	2.9	0.3	1.0	4919	0.25	90	0.8	87
3698	604925	5150798	1.0	54	5.7	21	21	0.05	1.2	0.49	2.0	7	16	1619	47	0.7	12	4.9	0.2	1.0	3773	0.25	63	0.5	35
3699	605990	5152967	7.0	51	5.3	20	23	0.10	1.7	0.75	6.6	33	28	6022	115	0.6	19	6.0	0.2	0.2	3432	0.25	197	1.3	94

Site	Easting	Northing	Lake	LOI	pH	Cond	Temp	Ag	As	Cd	Co	Cr	Cu	Fe	Mn	Mo	Ni	Pb	Pd	Pt	S	Sn	Ti	U	Zn
Number	Method------------>		Depth	Grav	YSI	YSI	YSI	ICP-MS	INAA	ICP-MS	ICP-MS	ICP-OES	ICP-OES	ICP-OES	ICP-OES	ICP-MS	ICP-OES	ICP-MS	FAICPMS	FAICPMS	ICP-OES	ICP-MS	ICP-OES	ICP-MS	ICP-OES
	Detection Limit------->			0.1	0.01	1	0.01	0.02	0.5	0.050	0.05	4	5	5	1	0.10	5	0.05	0.3	0.3	30	0.50	3	0.05	2
	Units-------------->		m	%		µS/cm	°C	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm
	(NAD 83 Zone 17)																								
3700	606936	5152493	6.0	37	5.5	19	23	0.14	1.2	0.63	3.7	28	21	7272	104	0.8	15	3.4	0.2	1.2	1808	0.25	221	1.0	69
3701	607371	5150874	4.0	67	5.4	22	22	0.12	1.2	1.04	2.6	19	33	3609	102	0.9	12	2.3	0.2	0.2	4005	0.25	87	0.8	52
3702	608200	5150956	2.0	37	5.4	19	22	0.10	0.8	0.43	2.5	20	15	3534	64	0.4	11	2.8	0.2	0.2	1915	0.25	181	0.6	33
3703	611099	5152367	3.0	64	4.4	18	22	0.10	0.9	0.61	1.6	12	24	3209	73	1.1	8	1.6	0.2	0.2	3198	0.25	84	0.7	29
3704	609134	5154891	3.0	37	4.9	301	21	0.06	0.3	0.20	1.3	14	13	2452	42	0.4	7	1.9	0.5	0.5	2066	0.25	124	0.8	16
3705	604298	5159284	2.0	15	5.6	114	22	0.08	1.7	0.17	7.4	26	12	11886	179	0.5	17	7.6	0.7	0.7	1453	0.25	577	0.8	70
3706	603427	5158820	1.0	34	6.5	184	22	0.10	5.7	0.59	3.1	42	37	8876	47	5.1	13	3.2	INF	INF	11156	0.25	117	6.9	64
3707	601888	5160350	13.0	55	7.2	24	22	0.14	1.4	0.74	1.7	7	41	3494	71	1.5	10	1.9	0.5	0.5	4558	0.25	59	1.1	61
3708	599840	5160068	4.0	56	6.8	23	22	0.13	1.1	1.27	3.7	17	23	5569	98	0.9	15	5.6	0.2	0.2	4509	0.25	94	2.1	71
3709	600354	5160425	1.0	NS	5.8	17	20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3710	600171	5161462	6.0	46	5.7	17	22	0.14	1.9	0.54	3.8	25	23	7222	86	0.5	18	8.2	0.2	0.2	2889	0.25	168	1.0	62
3711	599566	5161665	2.0	58	5.5	16	21	0.08	1.4	0.67	2.2	13	20	2577	58	0.7	10	6.8	0.2	0.2	3712	0.25	81	0.9	33
3712	601712	5162801	3.0	NS	5.5	42	22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3713	600846	5163673	5.0	NS	5.5	43	22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3714	599265	5163979	6.0	50	5.6	24	23	0.18	1.3	0.56	4.9	26	29	6959	110	0.5	19	4.1	0.2	0.2	3306	0.25	136	1.2	67
3715	598296	5164596	4.0	50	5.3	31	21	0.11	1.3	0.81	3.3	25	20	4986	74	0.7	15	5.6	0.4	1.1	3347	0.25	123	1.2	54
3716	597735	5164888	1.0	40	5.4	20	21	0.15	1.5	1.44	3.9	17	16	4835	91	0.4	16	17.9	0.5	0.8	3426	0.25	175	1.0	67
3717	597029	5165272	3.0	43	5.7	30	22	0.14	1.2	0.75	5.7	33	21	7956	120	0.4	21	3.6	0.4	1.1	2308	0.25	176	0.9	72
3718	595634	5166869	10.0	NS	4.6	18	22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3719	597011	5168484	7.0	60	5.9	62	23	0.24	2.3	1.13	11.7	47	46	9604	976	1.2	27	10.2	0.2	0.2	4954	0.25	190	2.6	124
3720	595552	5168647	2.0	65	6.3	30	22	0.12	1.3	1.00	1.8	10	29	1943	46	1.1	11	2.2	0.2	0.2	5156	0.25	67	1.0	60
3721	590551	5170902	4.0	62	6.4	29	22	0.13	1.7	0.70	3.2	14	27	4231	116	0.9	14	4.7	0.2	0.2	4177	0.25	58	1.0	58
3722	591696	5171669	23.0	43	6.4	15	23	0.18	2.6	0.96	12.5	35	25	9052	336	1.2	21	12.8	INF	INF	3622	0.25	176	1.8	85
3723	593736	5171849	4.0	43	6.6	101	22	0.11	1.8	0.82	6.7	24	20	6038	110	0.5	19	3.8	0.5	1.2	3557	0.25	77	1.7	76
3724	592351	5173283	3.0	61	7.0	314	22	0.06	1.4	0.34	2.3	7	21	1612	41	2.3	15	2.4	0.2	0.2	3626	0.25	58	2.3	41
3725	590825	5173835	11.0	34	7.0	51	23	0.19	2.7	0.71	13.7	57	24	20550	504	0.7	34	14.2	0.5	1.1	2770	0.25	251	1.5	117
3726	589296	5173606	5.0	61	6.9	23	22	0.19	1.7	0.61	2.2	15	30	3585	51	1.2	19	4.4	0.2	0.2	4795	0.25	55	0.8	60
3727	588235	5174798	7.0	NS	6.7	298	23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3728	589638	5178054	5.0	49	7.3	120	22	0.19	6.0	0.49	8.5	53	50	17237	257	1.3	28	4.8	2.4	2.2	5620	0.25	262	4.1	107
3729	589517	5177683	3.0	45	7.5	102	22	0.09	10.0	0.52	7.0	36	51	16458	241	3.7	29	4.3	2.8	1.3	14208	0.25	162	4.4	78
3730	590135	5178191	2.0	65	7.6	78	22	0.08	3.3	1.07	5.9	21	25	5493	110	1.6	20	2.8	INF	INF	6010	0.25	93	1.6	121
3731	589463	5180064	5.0	66	7.5	46	22	0.16	3.1	0.63	5.7	23	35	4763	171	1.4	18	9.3	1.3	0.5	5947	0.25	87	2.5	82
3732	590580	5180245	11.0	88	4.7	24	22	0.16	1.6	1.82	1.6	9	31	2594	77	1.9	12	2.3	INF	INF	4770	0.25	79	0.3	139
3733	590137	5182421	5.0	NS	5.6	114	22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3734	592332	5189711	1.0	69	6.5	51	22	0.13	2.3	0.46	5.0	13	30	2742	59	1.3	20	3.8	0.7	0.6	4512	0.25	101	1.3	23
3735	594972	5192017	4.0	54	6.9	107	21	0.24	4.8	1.28	5.6	19	37	6610	78	1.0	32	30.4	1.0	1.6	8313	0.89	79	1.4	90
3736	595391	5191625	4.0	40	7.0	92	22	0.18	3.0	0.51	5.9	33	27	9891	164	0.5	25	12.2	0.8	0.9	3724	0.25	125	1.2	73
3737	595443	5191001	7.0	26	7.1	68	22	0.08	4.7	0.66	14.0	46	25	19541	464	1.0	33	17.4	0.8	1.0	2972	0.50	201	1.6	110
3738	598104	5191772	2.0	49	7.2	56	22	0.08	2.6	0.62	5.5	26	23	5169	90	0.8	21	8.1	0.2	0.6	4026	0.25	84	1.8	60
3739	605324	5193871	5.0	69	7.3	22	22	0.11	1.1	0.69	4.0	19	33	6984	101	2.5	16	2.8	0.2	0.2	5238	0.25	96	4.2	140
3740	605216	5192928	1.0	58	6.8	25	22	0.08	1.5	0.45	3.3	21	24	2490	31	1.6	29	4.2	0.2	0.2	3828	0.25	113	4.0	22
3741	605470	5191784	2.0	57	6.6	29	21	0.08	1.6	0.53	3.7	15	29	2237	37	0.9	26	6.3	0.2	0.2	5046	0.25	75	2.1	36
3742	606400	5193205	1.0	54	6.7	40	21	0.15	3.8	1.21	7.5	16	35	4053	121	2.5	35	27.6	1.1	2.6	7314	0.61	89	3.7	107
3743	606387	5191847	1.0	47	6.8	43	21	0.07	2.1	0.51	4.5	21	27	3759	67	1.1	25	7.0	0.2	0.2	4158	0.25	78	3.7	54
3744	606275	5191061	6.0	44	6.9	44	22	0.22	2.9	0.75	5.5	30	35	9328	161	1.1	27	14.8	0.8	5.7	6431	0.53	118	2.8	76
3745	606293	5190212	4.0	53	7.0	41	22	0.19	1.7	0.70	4.8	29	33	5792	140	1.0	23	8.0	0.2	0.2	4345	0.25	92	2.5	56
3746	607358	5190368	9.0	36	7.0	39	22	0.20	3.0	0.81	8.5	44	31	12799	266	0.5	31	23.9	0.8	1.7	3596	0.56	182	1.6	96
3747	607421	5191550	4.0	24	7.1	39	22	0.08	2.3	0.37	11.0	49	28	12928	375	0.7	35	3.5	0.8	0.9	3407	0.25	264	2.6	97
3748	608533	5191806	10.0	34	7.0	32	22	0.17	3.4	0.73	12.2	50	28	16660	375	0.7	34	26.2	1.0	1.8	3505	0.50	268	1.6	101
3749	609015	5192479	11.0	28	6.9	32	22	0.13	2.7	0.68	11.7	50	23	15730	335	0.6	31	11.3	0.2	0.8	2585	0.25	291	1.5	89
3750	610157	5191413	3.0	NS	6.9	35	22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3751	611504	5192116	1.0	62	7.0	39	22	0.09	1.9	0.87	5.4	15	45	1966	27	0.9	21	6.8	0.8	0.2	4806	0.25	69	1.6	88
3752	611723	5191879	3.0	35	7.0	39	22	0.16	2.4	0.82	15.9	48	25	13612	233	0.5	35	4.2	0.7	0.6	2869	0.25	210	2.1	94
3753	613419	5194252	5.0	20	7.0	25	22	0.13	1.2	0.33	15.2	46	15	15913	259	0.4	31	3.8	0.2	0.8	1412	0.25	280	1.0	79
3754	614507	5195701	3.0	31	6.6	19	21	0.10	1.2	0.38	3.6	28	17	5739	75	0.3	18	3.9	0.4	0.9	1935	0.25	127	0.7	33
3755	616094	5193679	3.0	49	6.1	19	21	0.13	1.0	0.67	2.6	27	23	3827	56	0.5	19	3.8	0.3	1.2	3015	0.25	126	0.9	43
3756	617213	5193145	3.0	58	5.6	21	22	0.14	1.2	0.71	4.0	30	28	4561	76	0.7	19	2.9	0.5	1.4	3398	0.25	150	1.8	53
3757	617637	5193276	15.0	53	5.3	21	22	0.15	1.6	0.41	3.0	24	22	4057	85	0.8	14	5.1	0.2	0.2	2915	0.25	129	1.2	32
3758	618691	5194277	7.0	45	5.3	21	22	0.08	1.8	0.70	3.8	29	19	5974	68	0.5	18	6.4	0.3	1.2	2816	0.25	111	1.2	39
3759	619784	5195780	1.0	48	5.3	19	21	0.09	0.7	0.23	3.1	28	15	3912	41	0.4	18	5.3	0.4	1.1	2940	0.25	186	1.6	17
3760	620647	5194862	1.0	45	5.4	19	21	0.07	2.3	1.36	6.4	31	17	7376	100	0.4	27	17.1	0.7	1.5	4215	0.25	268	1.6	71
3761	622183	5193901	4.0	51	5.6	22	21	0.13	1.3	0.59	4.2	35	36	5959	84	0.9	22	3.9	0.2	0.2	3980	0.25	165	1.6	63
3762	621727	5192823	1.0	NS	5.8	22	21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3763	621453	5193282	3.0	54	5.8	18	21	0.10	1.4	0.58	3.8	31	23	6141	70	0.7	18	5.4	0.2	0.2	3840	0.25	243	1.0	54
3764	620485	5193464	3.0	61	5.9	24	21	0.06	1.1	0.69	3.0	13	32	3700	41	0.9	21	2.2	0.2	0.2	5264	0.25	74	1.7	56
3765	620081	5193705	3.0	46	5.9	20	22	0.04	0.9	0.40	3.6	33	18	5494	71	0.4	21	3.0	0.2	0.2	2278	0.25	140	1.2	48
3766	619292	5192681	4.0	53	5.5	19	21	0.08	1.7	0.64	3.0	27	19	4118	66	0.6	18	4.8	0.2	0.2	3123	0.25	111	1.1	36
3767	619047	5192785	1.0	59	4.7	22	21	0.01	1.9	0.62	2.5	16	18	2707	38	0.7	16	14.7	1.6	1.4	3862	0.25	118	0.7	28
3768	617870	5191916	4.0	58	4.5	27	21	0.09	0.3	0.34	1.9	18	20	2525	49	0.7	12	1.9	0.3	1.2	2933	0.25	87	0.8	22
3769	616928	5192482	5.0	58	4.8	21	21	0.06	1.0	0.54	2.1	13	30	3051	55	1.1	13	1.6	0.2	0.2	4443	0.25	75	1.1	56
3770	614769	5191914	3.0	53	4.9	18	21	0.11	3.1	0.93	2.7	28	31	3798	49	0.7	25	17.7	0.8	0.2	3150	0.25	99	1.0	51
3771	614106	5190376	9.0	56	4.9	20	21	0.12	1.3	0.58	2.3	22	25	3989	63	1.0	12	3.2	0.2	0.2	3047	0.25	95	1.6	28
3772	613312	5189661	1.0	NS	5.0	15	20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3773	612792	5189848	2.0	53	5.1	18	21	0.04	1.4	0.51	2.0	15	21	2247	46	0.7	13	2.3	0.2	0.2	2798	0.25	93	2.5	32
3774	611721	5189046	19.0	29	6.0	26	22	0.08	4.8	0.75	17.3	43	23	20657	383	0.8	56	22.9	0.8	1.4	2926	0.50	224	1.2	83
3775	611503	5189751	10.0	45	6.2	26	22	0.10	3.4	0.92	11.4	39	30	16244	264	0.6	48	20.0	0.6	0.8	3856	0.25	153	1.3	83
3776	608809	5190494	9.0	29	6.4	34	22	0.15	3.5	0.97	20.7	53	23	23451	545	0.4	37	15.2	0.7	0.7	2421	0.59	248	1.4	118
3777	603067	5189762	6.0	52	6.6	52	22	0.19	3.6	1.26	10.7	38	32	12128	505	0.5	30	19.5	0.9	1.7	4879	0.57	127	3.3	128
3778	601476	5189351	4.0	32	6.8	33	22	0.09	1.8	0.80	10.3	44	24	12939	307	0.9	33	6.5	0.6	0.6	3349	0.25	304	2.2	147
3779	600479	5189834	4.0	45	6.8	27	22	0.14	1.8	0.61	5.6	31	23	7349	142	0.4	23	10.5	0.2	0.2	3029	0.25	107	2.6	59
3780	597923	5191050	4.0	46	6.7	NM	22	0.13	3.9	0.89	8.6	44	37	11911	298	0.5	30	19.5	1.5	1.8	5031	0.55	131	2.5	101
3781	596265	5190744	13.0	56	7.0	50	22	0.17	12.0	1.06	12.1	32	44	22936	974	1.3	33	33.7	1.6	1.6	8063	0.90	109	2.1	111
3782	614117	5189689	9.0	80	NM	NM	NM	0.17	3.7	1.08	3.2	6	62	5896	82	1.5	18	7.2	0.2	0.2	6026	0.25	56	0.3	86
3783	614627	5190170	1.0	72	6.0	15	20	0.16	4.7	0.97	3.6	16	37	5333	30	0.9	32	33.8	0.9	0.6	5156	0.76	85	1.7	37
3784	615179	5190303	2.0	49	5.8	16	20	0.10	1.0	0.53	4.4	32	26	5987	47	0.6	29	5.8	0.2	0.2	2544	0.25	149	1.1	33
3785	616914	5189986	2.0	56	4.5	35	20	0.09	1.3	0.28	2.2	22	22	2936	44	0.8	13	2.6	0.4	1.4	2474	0.25	172	1.1	29
3786	618143	5189872	11.0	45	5.2	20	21	0.08	3.3	0.73	5.7	36	24	7828	135	0.7	21	11.1	0.2	0.2	3199	0.25	193	1.3	54
3787	618550	5190686	13.0	47	5.5	20	22	0.12	2.5	0.48	5.5	32	20	7818	131	0.8	20	12.4	0.2	0.2	3276	0.52	152	1.2	44
3788	619118	5190509	4.0	45	5.5	20	22	0.07	1.0	0.59	4.3	39	19	6742	105	0.5	21	3.8	0.4	1.3	2658	0.25	200	1.2	53
3789	619448	5191267	1.0	87	4.8	20	20	0.11	3.9	0.74	2.6	12	28	2492	50	0.5	18	20.6	0.2	0.2	5071	0.65	67	2.5	49
3790	620440	5190498	5.0	55	4.7	21	21	0.11	1.3	0.34	2.2	18	20	2021	36	0.7	11	4.0	0.2	0.2	3321	0.25	111	0.8	19
3791	621239	5190260	6.0	49	4.9	20	21	0.09	2.3	0.42	3.3	27	20	4276	56	0.7	19	10.1	0.2	0.2	3232	0.61	108	1.0	39
3792	621986	5190159	1.0	NS	5.4	23	20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3793	621756	5189916	1.0	NS	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3794	622406	5190726	1.0	36	5.8	17	19	0.13	1.0	0.44	2.8	23	14	3883	52	0.4	12	8.3	0.4	1.3	2016	0.25	203	3.6	20
3795	623708	5191548	6.0	NS	6.2	44	20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Site	Easting	Northing	Lake	LOI	pH	Cond	Temp	Ag	As	Cd	Co	Cr	Cu	Fe	Mn	Mo	Ni	Pb	Pd	Pt	S	Sn	Ti	U	Zn
Number	Method------------->		Depth	Grav.	YSI	YSI	YSI	ICP-MS	INAA	ICP-MS	ICP-MS	ICP-OES	ICP-OES	ICP-OES	ICP-OES	ICP-MS	ICP-OES	ICP-MS	FAICPMS	FAICPMS	ICP-OES	ICP-MS	ICP-OES	ICP-MS	ICP-OES
	Detection Limit--------->			0.1	0.01	1	0.01	0.02	0.5	0.050	0.05	4	5	5	1	0.10	5	0.05	0.3	0.3	30	0.50	3	0.05	2
	Units--------------->		m	%		µS/cm	°C	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm
	(NAD 83 Zone 17)																								
3796	624154	5191615	1.0	NS	6.3	22	20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3797	624576	5191632	1.0	35	6.1	26	19	0.12	1.2	0.43	3.2	29	26	6300	58	0.2	17	8.7	0.5	1.2	2143	0.93	232	3.0	30
3798	625049	5191046	1.0	NS	6.1	20	20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3799	626691	5190657	5.0	61	6.2	22	21	0.09	1.3	0.64	3.8	20	22	7054	96	1.5	19	3.9	1.3	1.4	5704	0.25	95	1.8	78
3800	627428	5191422	6.0	69	5.9	19	21	0.11	0.3	0.50	1.8	14	31	5553	67	1.8	12	1.5	0.2	0.2	4176	0.25	88	1.0	63
3801	628050	5191576	6.0	44	6.0	31	22	0.19	2.6	0.70	5.9	34	29	10945	115	0.8	25	16.3	0.2	0.2	5619	0.59	188	2.2	78
3802	627605	5192013	18.0	51	6.5	29	22	0.31	13.0	1.27	24.7	31	37	21937	805	1.7	28	61.1	0.7	0.8	8181	2.39	169	1.8	98
3803	627888	5192674	1.0	55	6.4	24	21	0.14	2.2	1.16	6.2	18	24	4677	118	1.6	24	21.2	0.2	0.2	6089	0.63	80	2.0	60
3804	626928	5192012	1.0	51	6.4	27	21	0.11	1.4	0.68	5.7	22	22	5391	75	1.0	22	7.7	0.2	0.2	4282	0.25	206	1.1	35
3805	626777	5192498	10.0	69	6.2	20	21	0.25	4.2	1.05	3.7	17	43	13241	103	1.8	22	16.9	0.2	0.7	7317	0.73	91	0.7	101
3806	623997	5193680	5.0	NS	6.5	37	20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3807	623331	5194576	5.0	47	6.6	24	21	0.23	1.4	0.80	11.0	49	31	9096	137	1.6	30	6.9	0.6	1.6	4816	0.25	248	2.0	78
3808	626641	5193923	13.0	68	6.1	20	22	0.16	1.4	0.58	2.6	14	49	6079	66	1.5	13	2.6	1.3	1.2	4430	0.25	91	0.9	54
3809	626866	5193711	2.0	50	6.0	22	21	0.14	0.8	0.55	4.8	19	27	3001	41	2.6	21	4.4	0.2	0.2	4351	0.25	150	1.4	36
3810	627153	5194470	3.0	NS	6.2	34	21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3811	628473	5195082	2.0	54	6.3	20	21	0.06	1.0	0.58	3.1	18	22	3462	49	2.0	17	2.8	0.3	1.2	3679	0.25	169	1.8	36
3812	628773	5192127	13.0	NS	6.2	22	22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3813	629353	5192409	2.0	50	6.2	29	21	0.11	1.1	0.54	2.3	13	18	2418	36	1.1	15	5.0	0.2	0.2	4688	0.25	97	1.9	43
3814	629442	5191662	2.0	54	6.4	26	21	0.14	1.3	0.60	3.4	17	22	3421	71	1.4	15	3.5	0.2	0.2	4716	0.25	102	1.6	54
3815	630796	5192308	1.0	79	6.4	37	21	0.09	1.2	0.54	2.6	12	28	2956	62	0.6	16	8.6	0.2	0.2	5062	0.25	106	1.8	22
3816	634517	5189109	2.0	21	6.7	95	21	0.15	4.0	0.54	8.5	53	42	15442	163	0.8	29	8.0	1.3	0.8	4034	0.25	593	1.7	55
3817	637961	5184569	1.0	55	7.4	157	21	0.07	2.6	0.63	5.5	21	32	3604	72	2.3	15	6.2	1.3	1.5	6449	0.25	79	3.5	48
3818	638427	5184167	1.0	61	7.3	168	20	0.15	3.6	0.52	4.7	31	45	12336	90	4.2	42	2.4	2.2	1.6	13485	0.25	289	3.3	89
3819	638392	5184907	1.0	42	7.2	36	21	0.06	1.1	0.60	3.7	21	16	4590	61	0.7	18	6.2	0.5	1.6	2975	0.25	189	1.0	48
3820	638819	5185544	1.0	82	6.9	33	21	0.19	2.2	0.73	2.2	14	32	2648	59	0.6	17	11.2	0.2	0.2	5486	0.25	50	3.4	27
3821	639910	5184741	1.0	55	6.8	35	21	0.10	1.2	0.62	3.3	18	19	2884	53	0.8	19	4.2	0.5	1.4	3902	0.25	84	2.5	45
3822	641016	5179759	2.0	46	6.0	22	21	0.10	1.8	0.49	2.1	24	17	4786	68	0.8	15	8.2	0.4	1.2	3513	0.25	90	2.2	30
3823	636966	5179433	11.0	76	4.4	33	21	0.25	2.2	1.05	1.7	9	64	6518	99	2.7	11	2.5	0.5	0.5	5519	0.25	47	1.8	109
3824	633781	5185239	12.0	28	6.5	178	17	0.07	6.9	0.66	3.1	70	45	7263	66	3.0	24	20.6	1.9	0.7	6450	0.66	169	3.3	44
3825	633210	5184672	6.0	54	7.8	219	22	0.09	10.0	0.52	3.8	103	69	9142	65	4.5	19	5.7	4.1	1.1	12251	0.25	220	8.1	67
3826	631949	5186506	11.0	68	8.1	240	22	0.10	11.0	0.64	4.8	64	54	11688	299	8.8	17	9.5	5.0	2.2	18353	0.25	139	10.8	62
3827	631361	5186360	5.0	64	8.1	109	22	0.11	2.9	0.84	4.4	19	32	5098	140	1.8	10	3.2	2.7	1.7	6312	0.25	95	3.3	96
3828	631686	5187642	1.0	69	7.9	227	21	0.01	7.4	0.50	4.7	52	41	11851	82	6.3	20	7.7	3.4	1.4	15489	0.25	261	9.6	61
3829	631711	5187256	6.0	57	8.1	249	21	0.01	8.8	0.42	4.1	34	36	22538	117	13.2	14	6.0	2.7	1.1	28545	0.25	125	16.9	63
3830	629695	5190571	6.0	55	8.2	56	21	0.03	1.8	0.57	3.7	25	30	5988	94	1.2	20	4.9	0.2	0.2	4353	0.25	111	1.6	62
3831	627366	5190752	4.0	57	7.6	24	21	0.01	1.2	0.65	2.3	14	25	4720	74	1.4	14	2.4	0.2	1.2	3519	0.25	111	1.2	54
3832	627113	5190280	3.0	61	7.1	20	22	0.01	1.4	0.52	2.3	12	22	3616	65	1.1	14	4.5	0.2	0.2	4318	0.25	64	1.1	37
3833	626639	5189377	9.0	52	6.6	21	21	0.04	2.4	0.77	3.5	16	23	6505	74	0.9	18	15.2	0.2	0.2	4990	0.64	91	1.2	51
3834	626938	5188496	2.0	61	6.5	21	21	0.01	1.7	0.75	4.1	15	18	4638	75	0.9	15	8.7	1.8	1.6	4138	0.25	106	1.3	48
3835	626248	5188275	11.0	65	6.4	24	22	0.06	1.0	0.53	3.4	14	38	7451	88	2.1	15	2.1	0.2	0.2	4819	0.25	93	1.2	63
3836	625297	5188563	7.0	63	6.1	19	21	0.02	1.3	0.75	2.6	15	33	5573	70	2.1	16	2.5	1.2	1.5	5747	0.25	64	6.4	113
3837	625329	5189543	8.0	53	5.9	18	21	0.01	0.8	0.52	2.2	15	23	3903	101	1.3	14	2.1	0.2	0.2	3336	0.25	113	1.3	38
3838	625330	5188562	3.0	57	5.6	19	21	0.01	1.5	0.60	2.5	16	26	2564	45	0.9	16	2.3	0.4	1.2	3474	0.25	98	1.7	44
3839	624249	5190200	4.0	52	5.6	20	21	0.01	0.9	0.55	5.2	28	22	6811	108	0.7	25	4.1	0.4	1.3	3384	0.25	222	1.5	54
3840	624190	5188727	1.0	53	5.7	21	21	0.01	1.1	0.41	2.9	20	19	2555	43	0.7	21	7.1	0.4	1.3	3388	0.25	101	2.1	19
3841	623037	5189170	3.0	15	5.9	21	22	0.01	1.9	0.40	6.8	25	10	10912	126	0.7	20	6.8	0.5	0.8	1695	0.25	360	0.8	55
3842	619944	5188864	4.0	52	5.7	16	21	0.01	1.1	0.56	2.6	18	21	3321	49	1.1	14	4.5	0.4	1.3	3800	0.25	178	1.1	40
3843	619298	5188325	2.0	80	4.9	19	21	0.04	1.5	1.13	2.5	12	52	6323	132	2.1	14	2.2	0.2	0.6	5564	0.25	42	1.2	119
3844	616140	5188394	2.0	52	4.9	19	21	0.01	1.0	0.40	2.1	21	22	2491	42	0.8	13	2.6	0.2	1.2	2535	0.25	89	1.0	25
3845	615007	5187460	6.0	73	4.6	26	20	0.06	1.4	0.79	2.3	9	35	3471	69	2.7	13	3.5	1.3	0.5	4948	0.25	53	0.9	67
3846	613263	5186869	3.0	30	5.4	20	21	0.01	2.1	0.57	14.9	49	30	17575	192	0.9	39	4.1	0.6	1.4	1844	0.25	312	3.1	108
3847	612455	5186381	3.0	36	5.5	20	21	0.01	2.0	0.67	6.8	32	25	11182	123	0.6	25	9.6	0.8	1.7	2211	0.25	417	1.8	76
3848	610918	5186296	40.0	48	6.2	23	22	0.15	15.0	1.51	37.2	41	43	37022	1379	2.3	55	91.5	1.4	1.0	6453	2.29	193	2.0	124
3849	611339	5187266	31.0	NS	6.5	23	22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3850	610259	5186974	10.0	26	6.5	24	22	0.01	3.2	0.72	13.5	50	21	23144	446	1.1	32	11.7	0.7	1.1	2173	0.25	307	1.6	95
3851	610784	5188315	14.0	33	6.6	25	22	0.10	10.0	1.38	12.2	44	35	24717	493	1.1	39	63.8	1.7	2.1	3277	1.53	376	1.6	109
3852	609057	5188464	1.0	NS	6.6	25	21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3853	607703	5188698	1.0	NS	6.7	32	20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3854	607272	5189195	5.0	52	6.8	37	21	0.04	1.2	0.75	4.6	26	31	4519	166	0.8	18	4.8	0.6	1.6	3661	0.25	78	2.5	50
3855	590476	5195875	1.0	52	6.2	33	19	0.03	1.5	0.45	4.9	12	38	2267	35	0.9	21	3.5	0.8	0.4	3249	0.25	93	0.8	24
3856	589987	5197035	1.0	60	6.0	30	19	0.12	1.8	0.79	3.5	36	80	5965	53	0.4	25	5.9	1.3	0.9	3397	0.25	72	4.6	19
3857	589654	5196293	1.0	52	6.1	31	19	0.08	2.2	0.77	9.5	31	50	7110	125	1.8	28	6.4	1.6	0.8	3291	0.25	109	1.6	98
3858	587870	5196287	3.0	55	6.1	34	19	0.08	2.1	0.62	4.9	18	47	4867	89	1.1	21	4.8	0.2	0.2	3488	0.25	78	3.0	55
3859	586528	5196532	6.0	NS	4.8	25	19	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3860	585265	5196890	12.0	50	6.1	44	20	0.25	3.3	0.81	9.0	35	80	10864	337	0.9	28	15.4	1.6	1.7	3748	0.25	133	1.6	89
3861	584962	5196295	1.0	59	5.8	110	19	0.03	2.4	0.66	3.5	13	35	3313	89	1.0	22	6.9	1.1	0.8	4131	0.25	77	0.8	42
3862	585262	5196200	6.0	NS	4.9	25	20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3863	582416	5195885	31.0	45	6.5	54	21	0.18	11.0	0.77	16.4	38	60	56784	4419	2.8	29	16.5	1.6	2.1	5080	0.25	143	1.9	94
3864	582612	5196712	3.0	69	6.1	27	21	0.01	2.0	0.80	7.4	20	27	8560	160	0.7	19	4.4	1.5	2.0	4214	0.25	57	0.6	110
3865	583390	5197122	20.0	38	6.5	54	21	0.15	4.1	0.70	6.6	48	56	15556	270	1.2	29	11.2	1.2	1.2	2912	0.25	120	2.3	90
3866	582145	5198552	7.0	NS	6.4	32	21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3867	582745	5199597	6.0	65	6.7	54	21	0.05	7.8	0.62	9.6	29	97	17845	566	6.1	35	7.9	3.6	2.4	17671	0.25	156	5.0	78
3868	582204	5199770	2.0	44	6.6	55	21	0.01	2.1	0.51	4.6	23	44	5387	138	1.1	21	4.1	0.8	0.6	3718	0.25	64	1.5	62
3869	581151	5199889	5.0	52	6.2	28	21	0.06	2.8	1.12	11.0	35	47	10111	114	1.1	28	5.0	1.1	1.8	4685	0.25	86	1.2	95
3870	580498	5199169	5.0	51	5.6	28	21	0.08	3.5	0.75	9.9	34	56	8910	155	3.8	33	4.7	1.4	2.2	4955	0.25	132	1.7	94
3871	579969	5197736	2.0	57	5.5	25	20	0.01	1.6	0.38	3.0	12	50	1323	30	1.0	26	2.5	0.7	1.3	3428	0.25	70	0.8	26
3872	579153	5198061	3.0	33	5.9	37	20	0.06	3.0	0.64	11.9	48	46	13565	478	0.9	38	5.6	1.4	2.2	3897	0.25	186	1.5	92
3873	579387	5199185	14.0	40	6.2	40	21	0.10	2.7	0.55	11.6	40	51	15419	505	1.0	28	8.8	0.5	0.5	3320	0.25	152	1.2	89
3874	579568	5199774	1.0	61	6.4	42	20	0.06	2.8	0.52	6.3	24	60	4377	62	2.0	30	3.5	1.2	0.9	5362	0.25	102	2.0	68
3875	578422	5199576	7.0	55	6.3	30	21	0.09	3.7	0.82	6.8	35	46	6377	194	1.3	27	5.9	1.4	2.1	4150	0.25	104	1.7	85
3876	578690	5200262	8.0	59	6.3	33	21	0.11	3.8	0.79	9.5	25	64	11146	430	1.5	26	13.2	0.9	0.9	8731	0.25	61	1.0	104
3877	577359	5200578	15.0	31	6.7	62	22	0.05	7.2	0.56	7.7	45	59	15290	325	2.5	30	7.3	2.0	1.5	2640	0.25	139	3.5	90
3878	576819	5198368	27.0	25	6.9	60	22	0.04	7.2	1.00	13.6	43	60	14718	838	3.0	34	7.5	2.2	1.7	2195	0.25	176	3.3	103
3879	577515	5197973	3.0	55	6.8	64	21	0.05	4.3	0.66	5.2	25	58	4694	68	2.4	25	5.9	1.6	0.9	6989	0.25	82	3.0	74
3880	576347	5197450	13.0	43	6.8	55	22	0.04	4.4	0.48	5.1	33	53	7677	109	1.3	27	7.5	1.5	1.2	3554	0.25	116	2.6	52
3881	577386	5196425	9.0	57	6.6	40	21	0.25	8.4	1.35	10.1	26	82	13056	301	1.1	49	46.9	2.5	3.3	11200	1.63	115	1.2	103
3882	578426	5196524	37.0	25	6.9	60	22	0.07	3.8	0.37	7.6	51	46	16243	334	1.1	31	6.4	1.4	1.4	1896	0.25	171	2.9	67
3883	579280	5197105	7.0	49	6.8	49	22	0.10	5.2	0.84	9.2	37	63	11975	197	1.5	34	15.2	1.3	1.1	6179	0.25	120	2.0	92
3884	580416	5195223	29.0	29	6.9	54	22	0.16	8.8	1.13	26.0	63	83	40074	2304	3.5	55	12.1	2.8	1.9	2028	0.25	198	3.0	147
3885	578447	5195023	32.0	20	6.9	60	22	0.10	6.2	0.83	12.1	62	63	22722	753	1.9	46	8.3	2.3	1.9	1537	0.25	264	3.5	103
3886	576709	5194948	9.0	NS	6.2	30	21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3887	576529	5193192	8.0	NS	5.8	31	20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3888	577352	5191800	2.0	37	6.2	54	20	0.01	1.7	0.23	3.6	14	20	4479	88	1.1	19	1.9	0.5	0.5	3304	0.25	116	0.8	35
3889	578888	5191416	18.0	18	6.6	55	22	0.05	4.5	0.58	11.1	55	42	22228	610	1.6	42	7.8	1.6	1.5	1402	0.25	310	2.8	93
3890	577010	5189788	3.0	NS	6.7	33	21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3891	578599	5188976	29.0	20	6.9	59	22	0.09	7.9	0.54	8.9	50	38	18875	365	0.8	37	24.0	1.4	1.5	3086	0.83	280	2.0	76

Site	Easting	Northing	Lake	LOI	pH	Cond	Temp	Ag	As	Cd	Co	Cr	Cu	Fe	Mn	Mo	Ni	Pb	Pd	Pt	S	Sn	Ti	U	Zn
Number	Method------------------->		Depth	Grav.	YSI	YSI	YSI	ICP-MS	INAA	ICP-MS	ICP-MS	ICP-OES	ICP-OES	ICP-OES	ICP-OES	ICP-MS	ICP-OES	ICP-MS	FAICPMS	FAICPMS	ICP-OES	ICP-MS	ICP-OES	ICP-MS	ICP-OES
	Detection Limit-------->			0.1	0.01	1	0.01	0.02	0.5	0.050	0.05	4	5	5	1	0.10	5	0.05	0.3	0.3	30	0.50	3	0.05	2
	Units-------------------->		m	%		µS/cm	°C	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm
	(NAD 83 Zone 17)																								
3892	577254	5187968	2.0	61	6.6	38	20	0.06	2.8	0.70	6.3	22	57	2638	64	2.7	32	4.7	0.5	1.5	5946	0.25	84	7.7	89
3893	577777	5186467	2.0	64	6.4	52	20	0.07	1.7	0.72	3.5	33	37	5466	220	1.0	26	7.9	0.8	0.2	4911	0.25	138	2.8	35
3894	578838	5186101	12.0	10	6.7	59	22	0.02	2.6	0.23	9.9	52	22	20205	372	0.6	35	5.0	1.0	1.4	759	0.25	498	1.6	66
3895	579968	5187235	1.0	78	6.1	43	19	0.01	1.5	0.36	1.8	7	30	896	20	1.9	27	3.0	0.6	0.2	4947	0.25	31	0.3	43
3896	580649	5189192	1.0	59	6.5	67	19	0.02	2.1	0.42	1.9	7	29	1314	19	1.7	20	4.6	0.7	0.2	5882	0.25	48	0.8	49
3897	581679	5188827	1.0	72	6.5	51	19	0.02	1.9	0.44	1.6	10	31	1299	20	3.4	14	1.3	0.9	0.2	4905	0.25	59	0.9	60
3898	581598	5189411	1.0	73	6.0	69	19	0.05	2.2	0.43	2.4	12	35	1869	34	3.0	16	1.4	0.9	0.2	5406	0.25	69	1.4	55
3899	580944	5190515	5.0	56	6.5	54	21	0.14	3.7	0.74	8.6	30	67	6236	143	1.5	29	5.4	1.4	0.9	5167	0.25	109	2.1	88
3900	581968	5190973	2.0	62	7.0	79	20	0.06	5.1	0.45	2.9	14	46	4455	74	3.5	17	6.1	1.6	1.5	8589	0.25	57	2.0	63
3901	582386	5193466	7.0	41	6.8	49	21	0.16	4.5	0.73	7.6	36	76	12818	290	1.0	30	12.0	1.4	0.9	4844	0.25	138	1.8	92
3902	581471	5193669	2.0	NS	3.5	29	19	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3903	581555	5194663	9.0	58	5.1	32	20	0.25	2.9	0.69	3.7	16	73	5100	74	1.4	23	4.7	0.6	0.2	4904	0.25	77	1.0	66
3904	583459	5194485	4.0	44	5.8	44	20	0.12	3.6	0.65	8.9	45	65	12526	232	0.9	39	7.9	1.4	0.8	4229	0.25	191	1.8	82
3905	584381	5193431	7.0	58	6.2	51	21	0.44	5.6	0.63	5.6	31	82	12310	166	2.2	29	8.4	1.4	0.6	8730	0.25	106	2.0	79
3906	585245	5195021	8.0	NS	6.5	55	21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3907	587614	5194571	7.0	49	6.5	41	21	0.20	3.0	0.88	8.4	41	65	10866	216	0.8	30	8.3	1.3	0.9	3366	0.25	147	1.5	82
3908	588901	5194233	1.0	53	6.0	45	19	0.08	2.3	0.73	5.3	17	28	5496	152	0.6	21	7.0	0.2	0.2	3631	0.25	85	0.7	56
3909	589805	5193212	3.0	54	6.2	47	21	0.13	7.3	0.86	17.2	49	92	17484	356	2.3	48	7.1	2.1	1.2	8051	0.25	226	2.4	116
3910	615758	5184968	7.0	35	5.8	25	20	0.08	2.1	0.53	5.1	31	16	8081	81	0.8	21	8.8	0.7	1.4	2812	0.25	147	2.1	48
3911	616439	5186176	4.0	44	4.6	21	20	0.07	1.9	0.69	3.1	24	16	3273	44	0.8	19	10.2	0.2	0.7	2975	0.25	103	1.3	36
3912	617006	5185900	9.0	59	5.2	19	21	0.13	6.5	1.12	8.9	24	31	11473	200	1.8	26	37.6	0.2	0.2	9313	1.14	114	1.5	74
3913	616862	5186049	6.0	64	5.4	19	21	0.11	8.8	1.12	5.4	20	35	25135	208	2.7	29	48.0	1.1	0.7	12800	1.08	67	5.0	107
3914	618172	5186060	5.0	13	5.3	28	20	0.01	0.3	0.35	5.1	29	8	7703	112	0.3	17	5.4	0.3	0.5	1216	0.25	394	0.9	45
3915	624137	5186464	4.0	88	3.7	15	22	0.05	1.2	0.74	1.1	8	15	2713	154	0.8	8	2.1	INF	INF	3883	0.25	48	0.4	92
3916	625492	5186051	2.0	53	5.1	37	21	0.06	3.1	1.02	8.7	20	23	4842	81	0.6	28	16.0	0.2	0.8	5289	0.25	103	1.1	66
3917	625896	5185623	7.0	54	5.6	33	21	0.08	4.4	1.42	8.8	20	26	9734	197	0.7	25	29.3	0.2	0.2	6645	0.91	146	0.8	94
3918	625330	5184832	1.0	71	6.8	215	20	0.07	6.1	1.17	3.4	46	63	8166	101	1.7	16	5.9	3.7	1.4	9771	0.25	129	8.2	52
3919	626975	5186746	1.0	NS	5.3	30	20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3920	629608	5186399	3.0	NS	7.3	187	21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3921	629526	5185853	6.0	NS	7.6	253	21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3922	630450	5186561	1.0	77	6.5	42	21	0.01	INF	0.41	2.3	16	10	2958	96	0.7	10	1.9	INF	INF	4734	0.25	128	0.6	71
3923	630928	5185231	4.0	19	7.4	228	20	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD
3924	630739	5184610	12.0	26	7.8	237	21	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD
3925	629864	5183781	10.0	28	8.0	215	22	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD
3926	628599	5184253	13.0	16	8.0	182	21	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD	MRD
3927	628789	5181063	5.0	72	7.9	156	21	0.07	8.6	0.78	5.6	34	44	10879	105	4.2	17	5.9	4.4	3.4	12970	0.25	261	3.4	98
3928	628944	5181489	2.0	80	7.6	143	22	0.06	5.9	0.80	6.5	32	33	7221	75	5.4	17	3.1	3.3	1.5	4795	0.25	170	1.9	116
3929	628594	5181673	2.0	72	8.0	129	22	0.08	5.2	1.10	3.8	26	27	5069	68	2.9	15	15.0	2.2	1.1	6469	0.62	175	3.5	107
3930	629344	5181747	1.0	NS	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3931	632164	5181861	3.0	57	8.3	142	21	0.09	4.8	0.84	4.9	71	81	7531	65	3.1	22	5.5	3.9	1.0	7293	0.25	318	5.6	113
3932	632534	5182380	1.0	NS	7.8	145	19	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3933	632670	5182703	2.0	60	8.6	114	21	0.12	5.3	1.09	4.7	67	59	8703	71	3.4	23	13.3	3.8	1.1	8745	0.64	310	5.9	125
3934	632505	5182072	2.0	NS	8.1	144	20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3935	633041	5182159	1.0	NS	7.8	189	20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3936	634058	5183407	1.0	20	8.0	146	20	0.05	1.1	0.43	3.8	42	48	7637	85	0.2	17	9.5	0.9	0.4	2929	0.25	302	0.7	94
3937	634414	5182653	8.0	64	7.4	56	21	0.07	2.1	0.76	5.5	20	22	16968	1135	1.6	14	4.2	0.2	0.6	6604	0.25	60	1.5	141
3938	634614	5181900	7.0	64	7.8	146	21	0.19	7.7	1.93	5.7	57	142	6592	40	4.9	26	49.9	4.4	1.5	10222	1.53	162	21.6	132
3939	634675	5180622	8.0	75	7.4	93	21	0.11	10.0	1.02	3.7	20	52	21462	202	2.6	14	6.2	1.2	0.2	6992	0.25	61	6.5	159
3940	633931	5180606	1.0	93	7.4	52	21	0.02	1.1	0.49	0.7	6	14	1133	21	1.6	6	1.2	INF	INF	3142	0.25	66	3.9	54
3941	633536	5181502	7.0	NS	7.3	48	22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3942	632716	5181497	5.0	81	8.2	158	22	0.07	6.6	0.60	2.1	30	31	3742	39	6.8	14	12.2	2.9	1.0	12136	0.25	129	7.3	69
3943	632444	5181125	18.0	NS	8.1	127	22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3944	632003	5180655	16.0	NS	7.8	120	22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3945	632727	5180239	12.0	NS	8.0	130	22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3946	633677	5180031	1.0	25	7.4	51	21	0.09	3.1	0.38	6.3	38	40	8184	223	0.3	19	6.7	0.7	1.3	2282	0.25	224	2.8	42
3947	633500	5179104	15.0	35	7.0	29	22	0.19	7.9	1.90	10.8	48	49	14533	415	1.3	35	65.2	1.4	1.0	6369	1.58	144	5.3	130
3948	632700	5179614	1.0	38	8.4	137	21	0.22	5.0	1.01	5.9	59	111	8596	71	1.2	29	13.7	3.9	1.3	5569	0.25	353	9.4	91
3949	632328	5180089	19.0	NS	8.1	128	22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3950	631625	5179958	30.0	34	7.8	120	22	0.21	7.2	1.01	8.8	80	89	14462	140	3.5	50	41.1	5.8	2.5	7280	1.55	603	4.7	101
3951	631586	5180817	1.0	NS	8.2	NM	21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3952	631021	5180880	1.0	64	7.5	105	21	0.05	5.7	0.90	2.7	24	16	4217	41	2.7	12	3.5	INF	INF	7068	0.25	200	2.7	113
3953	630894	5180305	9.0	72	8.4	105	23	0.07	6.3	1.10	2.7	15	15	3616	82	2.3	10	22.3	1.2	1.0	5514	0.63	124	2.2	103
3954	630754	5179746	1.0	91	7.6	77	21	0.07	2.9	0.56	0.8	6	11	1515	16	1.8	6	7.2	2.6	0.7	4118	0.25	44	2.6	63
3955	630761	5179522	11.0	64	8.5	103	23	0.16	4.2	1.32	3.4	47	25	5558	55	1.0	20	39.1	2.8	1.2	7148	1.48	181	4.6	97
3956	631308	5179158	29.0	42	7.8	119	22	0.18	7.4	1.19	3.2	48	56	5020	35	2.2	27	45.1	3.4	1.8	7254	1.45	135	3.8	75
3957	630648	5179360	1.0	63	7.5	72	22	0.08	2.2	0.73	1.4	21	18	2242	25	0.9	11	9.5	1.1	0.2	4534	0.25	144	3.3	47
3958	630267	5179502	2.0	67	8.1	113	22	0.04	4.4	0.67	2.6	30	20	3929	38	2.3	11	4.1	2.1	0.5	6908	0.25	217	3.0	104
3959	630188	5180070	1.0	69	7.7	113	22	0.05	1.5	0.68	2.2	20	12	3077	42	1.5	11	4.0	INF	INF	4397	0.25	175	1.8	112
3960	629459	5179615	10.0	73	8.1	142	22	0.07	5.9	0.70	3.2	38	16	4150	66	3.5	12	4.4	2.7	2.0	7280	0.25	179	16.1	75
3961	629539	5178983	1.0	49	7.8	62	21	0.01	2.2	0.74	3.9	30	16	7584	188	1.1	19	16.5	1.1	1.8	4173	0.55	287	1.0	71
3962	628672	5179309	2.0	NS	8.0	127	21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3963	628265	5180953	4.0	71	8.0	142	22	0.03	6.7	1.91	5.3	32	32	8681	105	2.2	28	55.7	3.3	1.3	8545	1.70	226	2.3	145
3964	628019	5180255	2.0	77	8.2	121	22	0.01	6.7	0.87	3.4	24	22	4997	96	3.1	14	6.2	INF	INF	4929	0.25	144	3.0	97
3965	627824	5180788	5.0	75	8.5	123	22	0.01	7.1	1.11	2.9	32	19	4523	109	1.7	14	23.9	2.6	1.2	6900	0.80	168	3.8	77
3966	627879	5179661	2.0	59	8.1	98	22	0.01	7.4	0.57	4.3	36	19	6007	63	3.0	16	6.0	2.0	1.0	6538	0.25	269	6.0	68
3967	627711	5179309	6.0	73	8.1	126	22	0.06	14.0	1.39	4.9	71	38	7979	116	3.4	26	46.9	6.0	2.6	7716	1.45	212	13.8	93
3968	627120	5179543	1.0	NS	7.8	39	22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3969	627019	5179020	6.0	NS	8.2	70	22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3970	624700	5182353	1.0	79	7.8	219	20	0.01	6.5	0.73	3.2	45	35	6882	43	2.2	14	13.3	4.6	1.5	14576	0.25	94	7.4	47
3971	623925	5181430	11.0	NS	7.8	239	21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3972	623513	5182206	18.0	59	8.1	174	21	0.12	24.0	2.25	5.5	32	44	34147	884	2.2	40	102.2	2.6	2.7	22094	3.14	125	1.9	163
3973	623184	5181054	9.0	56	8.0	213	22	0.04	26.0	1.23	5.5	69	61	20732	341	5.8	26	37.7	3.6	1.8	15946	1.26	227	2.2	99
3974	623579	5179452	5.0	64	8.0	131	22	0.01	4.4	0.81	3.9	34	17	5022	60	2.0	14	6.9	1.0	0.2	4974	0.25	185	2.4	100
3975	622439	5179279	2.0	69	7.4	112	22	0.01	5.3	0.45	2.6	26	11	3289	54	1.7	12	4.0	0.5	0.5	6480	0.25	171	2.2	63
3976	621061	5179366	11.0	59	7.8	143	22	0.08	15.0	2.28	5.5	45	47	17721	209	1.0	39	103.5	2.2	1.5	14568	3.00	269	2.1	139
3977	621053	5182152	1.0	83	7.2	68	22	0.01	3.0	1.04	1.3	7	6	5063	37	3.2	12	1.8	INF	INF	10822	0.25	39	1.0	95
3978	620731	5181798	3.0	94	5.5	12	22	0.01	INF	0.45	0.6	7	2.5	1141	42	0.7	6	1.5	INF	INF	2894	0.25	21	0.1	38
3979	618287	5181960	7.0	57	5.7	26	21	0.08	0.8	0.81	1.2	12	23	4676	95	1.3	9	1.9	INF	INF	3888	0.25	60	0.8	47
3980	617901	5183438	5.0	62	5.6	25	21	0.01	0.9	0.85	2.6	15	20	5075	89	1.0	12	7.7	0.2	0.2	3305	0.25	88	1.5	50
3981	616247	5181391	4.0	NS	4.4	21	21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3982	616674	5181043	1.0	NS	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3983	619368	5178866	1.0	40	6.4	158	20	0.01	7.3	1.04	9.0	57	18	40535	315	0.6	22	7.3	1.1	1.5	3508	0.25	363	0.8	110
3984	616560	5180017	1.0	NS	6.7	41	21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3985	613846	5185303	1.0	39	4.8	18	21	0.01	1.0	0.47	2.6	15	13	2923	42	0.7	14	5.8	0.4	1.2	2752	0.25	111	1.1	23
3986	613179	5185103	2.0	38	5.0	20	21	0.01	1.5	0.84	6.3	27	23	10183	112	0.5	24	9.6	0.7	1.5	2476	0.25	455	2.2	65
3987	611795	5184032	4.0	54	5.3	16	22	0.01	2.6	1.00	6.8	40	31	15111	117	1.0	27	5.4	0.2	0.2	3454	0.25	91	1.4	96

Site	Easting	Northing	Lake	LOI	pH	Cond	Temp	Ag	As	Cd	Co	Cr	Cu	Fe	Mn	Mo	Ni	Pb	Pd	Pt	S	Sn	Ti	U	Zn
Number	Method----------->		Depth	Grav	YSI	YSI	YSI	ICP-MS	INAA	ICP-MS	ICP-MS	ICP-OES	ICP-OES	ICP-OES	ICP-OES	ICP-MS	ICP-OES	ICP-MS	FAICPMS	FAICPMS	ICP-OES	ICP-MS	ICP-OES	ICP-MS	ICP-OES
	Detection Limit------->			0.1	0.01	1	0.01	0.02	0.5	0.050	0.05	4	5	5	1	0.10	5	0.05	0.3	0.3	30	0.50	3	0.05	2
	Units----------------->		m	%		µS/cm	°C	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm
	(NAD 83 Zone 17)																								
3988	612009	5183009	1.0	NS	5.8	25	21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3989	611215	5183353	5.0	43	5.8	19	22	0.01	4.9	1.36	15.7	66	46	31623	785	1.7	43	11.9	0.6	0.7	6709	0.25	193	2.9	172
3990	608905	5184505	9.0	54	5.3	21	21	0.12	5.1	1.49	5.4	19	52	13106	87	1.7	30	27.3	1.1	1.9	12011	1.47	97	1.2	143
3991	606250	5187574	15.0	40	6.4	46	22	0.04	1.7	0.73	8.1	42	27	11039	363	0.6	24	6.5	0.8	1.5	2652	0.25	166	2.5	77
3992	605758	5188614	20.0	41	6.6	46	22	0.13	5.4	0.92	10.1	45	32	15950	530	0.8	29	17.9	0.2	0.6	2782	0.55	173	2.8	93
3993	604593	5188806	6.0	30	6.6	45	22	0.09	2.2	0.67	16.0	51	23	21789	1002	0.8	32	6.2	0.6	0.7	1916	0.25	228	3.3	113
3994	604237	5187055	21.0	NS	6.6	45	22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3995	595395	5190067	2.0	NS	6.6	31	22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3996	596344	5190253	2.0	68	6.3	26	21	0.06	2.0	0.91	9.7	31	25	7108	73	1.4	37	3.8	0.5	0.5	4976	0.25	134	2.1	89
3997	596434	5189789	13.0	52	5.4	18	22	0.05	2.2	0.69	5.5	40	36	8627	99	0.8	25	8.0	0.2	0.2	4716	0.25	144	2.5	70
3998	596096	5188946	2.0	56	6.2	60	22	0.06	3.0	0.90	8.2	29	28	7378	236	0.9	19	6.6	1.6	1.5	4004	0.25	86	3.8	73
3999	595899	5188398	13.0	58	6.7	59	22	0.10	2.9	0.80	8.7	36	29	10196	367	0.9	19	10.3	0.7	0.2	3777	0.25	120	3.4	83
4000	595665	5187720	3.0	52	6.6	41	22	0.04	3.1	0.72	6.9	39	22	9628	223	0.6	26	5.5	0.6	0.2	3141	0.25	138	2.2	79
4001	601148	5188814	5.0	48	6.3	29	22	0.07	2.1	0.70	7.6	36	25	9639	203	0.7	26	5.5	0.5	1.2	2970	0.25	162	2.5	69
4002	603364	5188843	1.0	40	6.4	50	22	0.06	3.4	1.31	13.5	34	30	9212	796	0.9	28	13.9	1.0	1.7	3139	0.25	185	4.7	122
4003	618195	5173696	1.0	34	6.6	56	22	0.03	2.2	1.21	3.4	28	10	4986	181	0.5	13	7.8	0.5	1.5	2749	0.25	225	0.5	115
4004	620871	5172738	6.0	69	7.0	125	21	0.03	2.6	0.90	3.7	29	12	45266	276	3.4	13	2.7	0.2	0.6	23591	0.25	125	0.9	122
4005	622531	5172826	1.0	35	6.9	119	22	0.05	5.3	0.93	7.6	54	19	18277	507	0.8	23	12.7	1.1	1.9	5077	0.25	399	2.1	81
4006	625266	5171810	4.0	55	6.8	49	22	0.06	2.9	0.33	14.8	115	19	170925	223	1.7	25	3.3	1.0	1.2	4928	0.25	117	2.1	75
4007	625671	5172488	1.0	76	6.6	32	22	0.04	3.4	0.75	2.2	21	18	2635	39	1.8	15	5.8	0.8	0.7	4633	0.25	122	1.4	35
4008	625852	5171875	5.0	NS	3.7	23	23	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4009	626214	5171911	2.0	NS	5.1	30	22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4010	626872	5173633	14.0	35	6.3	66	22	0.13	25.0	0.19	8.3	69	30	303507	2310	0.7	36	2.7	2.5	1.5	3147	0.25	92	1.6	99
4011	627389	5173456	21.0	38	NM	NM	NM	0.22	INF	0.27	18.1	63	50	263189	2988	1.1	45	3.8	2.8	1.3	4620	0.25	145	1.8	88
4012	627476	5174148	10.0	49	6.3	38	23	0.20	9.3	0.61	20.0	69	52	45105	690	1.6	33	7.9	1.4	1.0	5366	0.25	265	4.4	119
4013	627723	5174493	1.0	NS	6.4	35	22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4014	628384	5173418	8.0	44	6.4	37	23	0.21	15.0	0.92	30.4	133	92	145742	892	2.5	55	9.1	3.0	2.8	4069	0.25	466	6.7	142
4015	629591	5173667	4.0	58	6.2	29	22	0.09	3.8	0.73	4.4	37	34	10599	150	1.5	16	2.8	1.3	1.1	4462	0.25	181	5.9	97
4016	630247	5173990	5.0	56	5.3	16	22	0.05	1.5	0.61	2.3	17	26	2248	121	0.5	10	2.4	0.9	1.5	4023	0.25	62	1.6	51
4017	629871	5174001	4.0	36	5.9	39	22	0.09	1.8	0.55	2.8	26	35	3944	39	1.3	16	2.9	0.2	0.2	4920	0.25	83	5.0	47
4018	630728	5173404	11.0	48	5.8	18	22	0.16	1.7	1.08	7.6	33	29	8862	256	0.9	17	3.3	INF	INF	5752	0.25	102	2.7	95
4019	630450	5173389	3.0	42	5.4	16	22	0.04	2.8	0.75	5.4	39	17	8908	169	0.8	18	2.4	0.7	1.5	3111	0.25	113	2.6	86
4020	629627	5173066	2.0	58	5.1	16	22	0.06	0.3	0.49	3.5	20	20	2257	41	0.5	17	2.3	0.6	1.3	3083	0.25	60	2.1	45
4021	628899	5172662	6.0	47	5.6	29	21	0.18	5.3	0.38	17.8	45	29	42023	345	1.2	18	6.0	0.7	1.6	4396	0.25	160	3.3	58
4022	628332	5172336	8.0	44	6.1	36	22	0.15	33.0	0.32	35.6	69	48	174975	1439	1.4	38	5.7	1.2	1.2	4946	0.25	186	3.2	81
4023	628478	5171967	2.0	46	6.1	41	21	0.10	5.8	0.87	23.4	60	34	47858	523	2.0	32	8.0	0.9	1.7	5766	0.25	194	4.2	133
4024	628749	5171792	3.0	86	4.9	13	22	0.01	1.4	0.55	0.9	7	11	1811	92	0.5	8	3.2	INF	INF	3128	0.25	50	0.9	63
4025	629363	5172437	3.0	57	4.9	22	22	0.06	1.6	0.67	1.8	15	21	2351	61	0.6	15	15.2	1.0	1.5	4296	0.25	89	3.2	34
4026	629764	5171645	1.0	49	5.2	23	22	0.04	0.9	0.53	2.3	10	17	2196	35	1.1	14	5.7	0.2	0.2	3829	0.25	82	2.5	27
4027	631173	5171954	2.0	50	5.4	21	22	0.01	1.5	0.48	1.2	9	13	1923	28	0.9	14	6.9	0.2	0.2	4045	0.25	60	2.2	28
4028	632469	5173403	5.0	37	5.3	19	22	0.04	1.6	0.67	5.4	30	16	9372	149	0.9	19	3.3	0.2	0.2	2625	0.25	194	2.2	82
4029	632712	5171377	10.0	53	5.6	26	22	0.22	2.1	0.71	4.4	17	30	9561	146	3.1	14	4.0	INF	INF	7276	0.25	81	1.8	74
4030	631956	5171041	1.0	45	5.3	22	22	0.10	1.2	0.60	2.1	14	14	2521	39	0.6	17	7.8	0.2	0.2	3671	0.25	103	2.4	30
4031	630587	5170357	3.0	51	5.0	17	21	0.06	1.0	0.38	1.4	7	14	1598	66	0.7	9	1.3	0.2	0.2	2971	0.25	51	2.1	32
4032	629640	5170687	2.0	17	5.1	17	22	0.04	0.3	0.18	2.8	30	6	6387	72	0.3	12	5.7	0.2	0.2	958	0.25	227	2.0	42
4033	630591	5168240	1.0	20	5.3	20	21	0.08	0.3	0.24	0.7	13	10	1662	34	0.3	5	6.7	0.2	0.7	1139	0.25	131	0.8	26
4034	630960	5168513	10.0	13	6.1	86	20	0.04	4.3	1.26	13.7	48	20	18163	486	0.4	29	19.4	0.8	0.7	2023	0.56	441	1.9	126
4035	633071	5169077	6.0	49	6.3	40	22	0.13	2.7	0.72	3.5	28	23	10467	170	2.1	15	11.4	INF	INF	4884	0.25	118	3.8	91
4036	632959	5168368	11.0	60	5.3	15	23	0.08	2.2	0.90	2.2	26	18	5193	103	0.8	15	6.7	0.2	0.2	5711	0.25	101	1.6	74
4037	632679	5166578	1.0	24	5.5	16	23	0.03	0.8	0.37	1.9	24	9	4140	68	0.2	11	9.6	0.3	0.6	1382	0.25	227	0.4	47
4038	633043	5167030	5.0	67	5.9	26	23	0.03	2.0	0.83	5.0	27	23	4115	72	2.0	18	6.2	INF	INF	5693	0.25	151	2.5	99
4039	631871	5166333	4.0	78	6.0	44	22	0.02	2.7	0.50	2.3	29	16	3622	254	2.8	15	3.4	1.7	0.5	7832	0.25	115	4.2	42
4040	631028	5166893	8.0	64	6.8	57	23	0.08	10.0	1.28	4.0	55	25	15080	282	4.2	29	35.1	1.6	0.5	17655	1.14	117	3.4	94
4041	629952	5167522	29.0	72	6.9	31	23	0.14	5.1	1.94	4.3	26	25	15642	819	3.3	18	7.2	1.0	0.5	8686	0.25	174	1.4	183
4042	629284	5167922	9.0	55	6.8	62	22	0.15	2.9	0.58	4.1	47	31	24151	466	3.9	17	6.8	INF	INF	8628	0.25	113	3.9	90
4043	629533	5167338	7.0	62	6.8	35	22	0.14	2.4	0.57	4.8	41	29	32059	285	2.9	19	6.9	1.0	0.9	10135	0.25	120	3.7	71
4044	629957	5167105	2.0	85	6.4	21	22	0.04	1.0	0.59	2.0	23	32	2245	74	3.5	22	1.3	0.5	0.5	8986	0.25	171	3.0	140
4045	630526	5166137	6.0	75	3.7	19	22	0.07	2.1	1.03	1.2	11	25	4493	70	3.2	10	5.5	0.2	0.6	5169	0.25	76	4.2	74
4046	629475	5166489	14.0	39	5.3	25	23	0.12	4.5	1.32	9.3	59	35	34419	620	4.6	28	23.3	0.2	0.6	5613	0.65	234	6.3	133
4047	628042	5166266	1.0	48	5.6	24	22	0.06	2.2	0.64	4.9	17	16	5556	96	1.8	17	2.7	0.5	0.5	4259	0.25	91	1.9	68
4048	626494	5167418	3.0	38	5.6	23	22	0.13	2.1	0.81	4.0	27	17	9008	197	1.7	15	3.0	0.4	1.2	2568	0.25	173	2.1	95
4049	626870	5168630	4.0	58	5.9	47	22	0.04	1.3	0.61	4.0	15	22	14161	105	2.1	15	3.1	INF	INF	22045	0.25	74	6.0	98
4050	627295	5170032	12.0	23	6.5	68	22	0.13	6.3	0.36	17.3	79	40	62358	926	0.8	39	6.9	1.4	2.1	1690	0.25	589	3.0	83
4051	626881	5170850	1.0	49	6.5	45	22	0.13	2.9	0.45	7.5	34	33	6955	105	2.1	34	5.1	1.0	0.8	5943	0.25	190	1.8	73
4052	626862	5171126	1.0	42	6.5	51	22	0.28	3.6	0.45	12.6	41	41	7979	148	1.9	36	5.1	INF	INF	5728	0.25	171	2.0	59
4053	623300	5170718	2.0	52	6.3	24	22	0.30	1.4	0.68	6.6	30	18	4906	65	2.0	24	2.2	0.2	0.2	3460	0.25	130	4.2	76
4054	623286	5169830	7.0	59	5.5	20	22	0.23	2.1	0.63	2.6	23	20	7601	126	2.0	16	6.6	INF	INF	4696	0.25	105	1.6	60
4055	623896	5169433	4.0	41	5.5	21	22	0.20	1.6	0.65	3.8	32	13	8417	191	1.7	16	2.9	0.3	1.4	2683	0.25	205	1.9	59
4056	623751	5168565	6.0	40	5.6	22	23	0.19	3.2	0.71	6.9	39	20	33983	386	4.3	20	7.8	0.2	0.2	4800	0.25	228	4.8	97
4057	623442	5168283	1.0	69	4.1	15	22	0.20	1.2	0.63	1.5	16	19	1453	44	0.8	14	12.0	0.8	1.4	3039	0.25	121	2.4	36
4058	624361	5168114	7.0	NS	5.1	21	22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4059	624925	5167261	1.0	62	4.9	19	22	0.14	2.4	0.96	2.1	13	15	4441	94	1.6	13	16.3	1.3	1.4	4935	0.25	106	2.2	44
4060	625032	5166454	1.0	53	4.9	18	22	0.29	2.0	0.56	2.1	10	12	4068	72	2.0	10	4.3	0.5	0.5	3646	0.25	91	1.3	21
4061	625505	5165611	5.0	36	5.1	23	22	0.26	2.1	0.60	4.5	31	16	12846	230	3.3	16	3.8	0.2	0.2	2970	0.25	204	2.5	71
4062	624222	5166417	4.0	48	5.0	19	22	0.24	0.9	0.66	2.6	24	17	4691	86	2.0	15	2.9	0.5	0.5	3005	0.25	90	1.7	60
4063	623497	5167325	3.0	46	5.0	18	22	0.28	1.5	0.64	3.8	26	15	6971	119	3.1	16	2.1	0.4	1.4	2714	0.25	116	1.8	57
4064	622207	5169324	7.0	46	4.9	21	22	0.30	1.0	0.52	3.4	21	15	6244	109	1.6	12	2.1	0.5	0.5	2788	0.25	113	3.1	45
4065	622464	5169958	2.0	54	5.1	20	22	0.17	0.8	0.55	2.1	14	15	3736	85	1.4	12	1.2	0.2	0.2	3433	0.25	89	2.0	40
4066	636960	5174035	6.0	62	6.0	41	19	0.26	6.4	1.85	5.4	33	24	26101	195	1.0	16	26.3	1.2	1.5	7160	0.76	145	1.9	121
4067	636913	5173796	6.0	58	6.0	31	20	0.19	2.1	0.68	3.9	52	16	24860	238	0.9	14	4.0	0.2	0.2	3380	0.25	228	1.3	85
4068	636193	5173442	4.0	51	5.4	25	20	0.21	0.6	0.96	2.5	11	16	4712	107	0.7	9	2.1	0.2	0.2	3317	0.25	100	1.9	64
4069	635661	5173313	6.0	49	4.7	20	21	0.19	1.4	0.84	2.3	14	19	4154	74	0.6	12	1.6	INF	INF	3033	0.25	125	3.4	71
4070	634679	5173148	5.0	NS	4.6	19	20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4071	635303	5172691	4.0	68	3.7	25	20	0.16	0.9	1.08	1.9	5	23	2715	79	1.0	8	1.1	0.2	0.2	4826	0.25	53	2.8	61
4072	634254	5173528	4.0	59	4.3	17	19	0.15	2.1	0.79	1.9	8	19	5762	108	1.0	10	7.4	2.2	1.7	4882	0.25	128	3.0	73
4073	633787	5172659	5.0	53	4.6	18	21	0.15	2.3	0.81	4.5	16	18	4089	96	0.8	16	3.2	0.2	0.2	3760	0.25	120	1.8	67
4074	633479	5171981	5.0	45	4.8	18	20	0.06	0.6	0.64	2.7	19	16	2067	49	1.1	17	3.3	INF	INF	3814	0.25	74	1.4	59
4075	633978	5171429	15.0	67	4.2	15	21	0.07	1.8	1.37	2.5	21	16	4263	113	0.6	11	4.7	0.2	0.2	4865	0.25	116	1.2	64
4076	634796	5171883	10.0	41	5.0	19	22	0.09	1.5	1.07	6.1	28	24	10667	261	1.0	15	5.1	0.6	1.5	3564	0.25	195	4.2	114
4077	635707	5172191	3.0	NS	3.6	27	21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4078	635630	5171398	7.0	38	4.4	18	22	0.10	1.7	0.93	7.7	27	18	13762	214	1.5	15	3.8	0.3	1.0	2924	0.25	184	4.9	112
4079	634737	5170945	1.0	40	4.4	19	20	0.07	1.4	0.37	1.6	18	13	1925	33	0.8	13	2.1	0.2	0.2	2807	0.25	122	2.5	16
4080	635739	5170220	1.0	46	4.3	19	19	0.10	0.9	0.79	3.1	11	16	4068	63	0.8	13	9.6	0.2	0.2	3613	0.25	138	5.4	34
4081	637636	5170088	10.0	37	5.6	22	21	0.13	5.8	1.36	9.4	33	23	19947	414	1.5	18	26.3	0.2	0.2	5498	1.18	338	3.4	133
4082	634677	5168869	3.0	39	5.7	36	20	0.07	1.0	0.32	1.1	11	14	1745	24	0.5	10	4.2	INF	INF	2822	0.25	132	5.9	15
4083	636609	5168753	1.0	24	5.1	18	19	0.11	1.1	0.43	7.6	49	12	16516	240	0.9	24	3.6	0.5	1.5	1527	0.25	486	3.4	74

Site Number	Easting	Northing	Lake Depth	LOI	pH	Cond	Temp	Ag	As	Cd	Co	Cr	Cu	Fe	Mn	Mo	Ni	Pb	Pd	Pt	S	Sn	Ti	U	Zn
	Method ------>			Grav	YSI	YSI	YSI	ICP-MS	INAA	ICP-MS	ICP-MS	ICP-OES	ICP-OES	ICP-OES	ICP-OES	ICP-MS	ICP-OES	ICP-MS	FA/ICPMS	FA/ICPMS	ICP-OES	ICP-MS	ICP-OES	ICP-MS	ICP-OES
	Detection Limit ------>			0.1	0.01	1	0.01	0.02	0.5	0.050	0.05	4	5	5	1	0.10	5	0.05	0.3	0.3	30	0.50	3	0.05	2
	Units ------>		m	%		µS/cm	°C	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm
	(NAD 83 Zone 17)																								
4084	637594	5168343	1.0	38	5.2	22	19	0.10	1.7	1.15	5.3	17	14	7291	211	1.0	15	9.1	0.3	0.9	3573	0.25	177	4.8	62
4085	639130	5167366	6.0	73	4.7	20	20	0.17	1.4	1.05	1.1	5	27	5724	121	5.5	8	2.3	0.2	0.2	5677	0.25	83	2.0	110
4086	639963	5165674	2.0	32	5.4	30	20	0.06	2.1	0.50	2.5	14	21	3404	37	0.8	11	5.6	0.4	0.2	3703	0.25	65	4.5	42
4087	639286	5165833	1.0	32	5.2	23	19	0.06	1.8	0.54	3.5	12	25	2950	47	0.7	10	4.1	0.4	0.2	3107	0.25	75	5.4	36
4088	636641	5165923	3.0	NS	6.2	87	19	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4089	635578	5166894	6.0	NS	6.6	89	19	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4090	634397	5167599	1.0	24	7.3	88	19	0.01	1.0	0.36	5.0	27	10	7666	90	0.6	15	5.4	0.7	0.5	2832	0.25	306	1.3	47
4091	631443	5165534	11.0	54	6.8	30	21	0.06	2.8	0.93	9.8	35	26	20750	608	1.6	19	11.1	0.7	1.6	19906	0.25	223	3.4	92
4092	630527	5164930	2.0	59	6.4	17	21	0.10	2.1	1.09	8.6	27	25	4883	135	2.3	21	4.5	0.2	0.2	3964	0.25	91	1.6	145
4093	629746	5165296	6.0	62	5.5	15	21	0.04	1.4	0.65	3.4	15	16	10726	137	2.2	12	3.3	0.2	0.2	4659	0.25	67	0.7	95
4094	630783	5164306	6.0	82	4.5	10	21	0.08	2.0	1.14	2.3	22	13	4071	125	0.9	12	4.3	INF	INF	4709	0.25	130	0.5	120
4095	630392	5164093	9.0	87	4.7	10	21	0.05	1.1	0.75	1.0	11	11	3513	155	0.8	7	2.0	INF	INF	3564	0.25	106	0.3	87
4096	630708	5164006	7.0	NS	3.9	11	22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4097	630183	5163578	11.0	NS	6.7	46	22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4098	629023	5163577	4.0	91	5.6	NM	21	0.07	0.3	0.86	1.0	9	9	1892	400	0.6	7	1.7	0.2	0.2	3297	0.25	38	0.2	95
4099	628659	5163695	5.0	51	6.0	39	21	0.05	4.3	0.82	3.3	47	24	3836	61	6.2	43	29.7	INF	INF	8802	0.87	85	11.3	57
4100	628348	5163738	22.0	49	5.9	26	21	0.11	4.1	0.98	9.3	28	20	10659	758	2.2	13	17.0	0.6	1.6	3871	0.74	204	2.0	73
4101	628198	5163028	8.0	94	3.7	17	23	0.01	1.3	0.77	0.3	2	7	2351	168	0.6	2.5	2.3	0.2	0.2	3348	0.25	35	0.1	67
4102	628040	5165328	4.0	45	4.5	17	21	0.06	2.0	0.86	2.3	13	16	2863	51	1.2	13	9.6	0.4	1.4	3642	0.25	83	1.8	58
4103	627346	5164817	1.0	47	5.0	22	20	0.06	0.8	0.50	1.0	13	14	2860	55	1.0	7	1.7	0.2	0.2	2414	0.25	104	1.3	30
4104	624641	5165192	7.0	27	5.2	21	21	0.05	1.4	0.75	6.9	45	17	18712	403	3.1	23	3.5	0.4	1.3	1998	0.25	250	2.2	107
4105	622183	5167211	5.0	65	4.5	16	20	0.11	2.1	0.90	2.4	7	34	4366	120	2.3	18	7.7	0.2	0.2	7912	0.25	71	1.0	134
4106	621046	5167452	10.0	60	4.0	20	20	0.14	1.2	0.76	1.7	13	31	3837	82	1.7	10	2.2	0.2	0.2	4364	0.25	78	1.0	67
4107	621040	5168697	2.0	75	3.5	28	20	0.06	1.8	1.00	2.0	12	27	5005	95	1.3	11	1.1	0.2	0.2	5774	0.25	49	1.2	83
4108	619535	5167719	6.0	52	3.9	19	21	0.08	0.8	0.59	2.1	20	20	2925	67	0.9	12	2.3	0.2	0.2	3045	0.25	71	1.4	36
4109	615696	5169207	1.0	37	4.0	20	17	0.09	1.3	0.57	3.1	27	17	7293	115	0.4	18	11.3	0.6	1.7	2423	0.25	199	1.0	40
4110	618198	5167285	3.0	35	4.6	20	22	0.07	2.3	0.88	7.9	40	20	11403	165	0.6	27	8.8	0.5	1.5	1792	0.25	254	1.1	110
4111	619690	5165718	4.0	39	5.0	20	22	0.08	1.8	1.08	7.6	42	21	10961	169	0.6	26	11.4	0.6	1.5	2221	0.60	289	1.1	106
4112	620746	5165101	3.0	24	4.9	18	22	0.06	0.9	0.41	4.0	28	11	7471	97	0.4	16	5.4	0.3	1.0	1346	0.25	299	0.9	53
4113	623211	5165098	5.0	26	5.0	20	22	0.04	2.3	0.85	6.6	38	16	14908	337	2.1	23	8.7	0.5	0.9	2512	0.25	230	1.7	101
4114	623660	5163967	2.0	44	5.1	20	22	0.06	2.0	0.83	3.4	29	23	4717	86	1.1	20	8.6	0.5	1.4	2892	0.25	128	1.5	91
4115	622862	5163528	4.0	54	4.7	18	21	0.08	1.5	0.77	1.5	18	18	3264	86	1.0	11	9.2	0.4	2.0	3069	0.25	151	0.8	44
4116	625523	5161347	2.0	51	4.6	15	21	0.07	1.6	0.58	1.5	13	14	3422	55	0.7	11	6.7	0.3	1.4	2637	0.25	116	0.8	23
4117	626583	5160580	4.0	32	4.9	19	21	0.14	1.6	1.02	4.9	33	14	11319	150	1.3	20	6.4	0.3	1.3	1908	0.25	193	1.0	110
4118	627702	5160643	1.0	21	5.0	20	22	0.04	2.0	0.43	13.1	34	38	11174	163	2.5	30	3.1	0.7	0.7	3891	0.25	502	1.9	58
4119	628193	5162152	3.0	45	5.3	27	21	0.04	0.9	0.99	4.2	24	14	6390	140	0.9	15	8.0	0.4	1.3	3246	0.25	180	1.5	60
4120	626834	5162616	2.0	41	5.1	18	21	0.08	1.1	0.91	2.7	16	15	4251	77	0.9	14	10.0	0.5	1.4	3070	0.25	138	1.1	60
4121	629041	5162378	15.0	65	8.4	38	23	0.03	1.5	0.59	2.3	22	13	4076	122	3.7	12	6.6	INF	INF	6791	0.25	128	1.8	66
4122	629284	5162204	6.0	65	5.2	17	22	0.11	1.6	0.85	2.2	33	28	3397	66	1.8	15	3.6	0.2	0.2	4776	0.25	119	2.4	112
4123	628846	5161644	11.0	44	5.7	30	21	0.17	8.7	1.63	10.8	34	30	31223	726	4.5	23	46.1	1.0	2.3	10229	1.57	155	2.0	141
4124	629063	5161206	2.0	34	6.1	60	20	0.07	7.6	3.05	17.0	27	22	13333	252	1.2	27	65.9	1.0	1.5	5028	1.38	305	2.4	195
4125	631051	5162549	12.0	50	7.2	78	22	0.13	13.0	0.79	6.6	159	44	28276	327	5.7	21	18.6	2.6	1.3	13765	0.25	158	11.0	89
4126	631195	5162974	1.0	NS	7.6	84	21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4127	631140	5161890	4.0	52	6.9	41	22	0.08	1.6	1.01	3.2	18	23	5520	133	3.3	16	4.0	0.2	0.2	4671	0.25	104	1.3	110
4128	633069	5161356	1.0	35	6.1	23	22	0.04	0.8	0.71	2.7	17	13	5816	45	7.6	12	3.7	0.4	1.2	6275	0.25	199	2.2	55
4129	632992	5160212	13.0	45	5.4	24	22	0.07	0.3	0.52	1.8	14	29	6525	94	5.3	11	2.7	0.3	1.4	4296	0.25	101	2.3	49
4130	632819	5159627	14.0	44	5.6	25	22	0.20	8.3	1.29	23.2	38	36	21834	893	2.8	30	63.7	1.1	2.4	6383	2.04	165	3.1	114
4131	631502	5160295	5.0	59	5.9	28	22	0.08	1.3	0.57	4.7	27	19	7577	197	2.5	19	4.7	0.2	0.2	5206	0.25	124	2.4	76
4132	631977	5158803	5.0	50	5.7	20	22	0.10	2.8	1.17	4.2	28	29	5599	96	1.0	21	15.3	INF	INF	6169	0.25	94	2.5	116
4133	632784	5158757	12.0	56	5.4	19	22	0.10	1.5	0.74	5.6	38	28	7642	302	1.1	16	5.4	0.4	1.3	4804	0.25	89	2.6	80
4134	632850	5157491	1.0	48	5.6	24	21	0.02	1.5	0.70	2.1	10	16	1855	34	0.8	16	2.9	0.6	1.2	3224	0.25	55	1.0	51
4135	632153	5157140	1.0	63	5.7	27	21	0.04	2.2	0.56	4.3	35	22	12267	111	3.3	14	2.1	0.7	0.2	8752	0.25	81	3.6	63
4136	631760	5157816	2.0	61	5.7	27	22	0.05	2.0	0.86	6.3	42	22	8753	100	2.0	25	5.3	0.2	0.2	4943	0.25	200	2.6	91
4137	632166	5157129	2.0	61	5.7	27	21	0.03	2.2	0.52	5.2	31	20	11093	105	2.7	13	2.1	0.7	0.2	7906	0.25	85	3.7	68
4138	628889	5156497	11.0	43	5.4	22	21	0.13	6.7	1.31	4.5	34	24	16833	100	1.3	27	44.3	0.9	1.4	5706	1.76	287	1.5	102
4139	629515	5158771	2.0	59	4.7	17	22	0.03	1.4	0.80	3.5	14	15	3260	71	1.8	14	2.5	0.2	0.2	4369	0.25	87	0.9	72
4140	625353	5155792	2.0	44	5.1	20	21	0.06	0.7	0.92	1.7	9	11	3483	72	2.2	9	2.3	0.2	1.1	2861	0.25	95	1.0	57
4141	624187	5157137	1.0	46	5.1	22	21	0.04	1.4	0.80	1.8	12	12	2668	45	1.1	13	5.9	0.2	1.2	2895	0.25	66	0.9	52
4142	624676	5158301	4.0	35	5.0	20	21	0.20	1.8	0.83	4.0	28	13	10090	144	1.1	15	5.6	0.2	1.2	1830	0.25	203	0.9	92
4143	624960	5159255	1.0	48	4.0	23	22	0.04	0.7	0.42	0.9	8	13	1767	36	0.9	7	2.2	0.2	2.2	2443	0.25	71	0.7	15
4144	625615	5159617	4.0	40	4.8	20	21	0.06	1.6	1.10	2.6	20	15	6686	91	0.9	14	11.7	0.2	1.1	2726	0.25	162	0.9	72
4145	622693	5161108	1.0	NS	4.2	12	21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4146	622417	5160490	5.0	15	4.9	18	21	0.14	1.4	0.33	14.1	45	15	23594	225	1.1	30	3.7	0.4	0.6	1539	0.25	576	1.0	117
4147	621673	5159607	5.0	NS	5.0	18	21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4148	621956	5157457	2.0	NS	5.2	18	21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4149	621156	5157125	6.0	83	4.7	18	21	0.15	2.2	2.13	1.9	6	39	4972	96	2.0	8	2.8	0.2	0.2	5725	0.25	46	0.8	67
4150	621232	5155732	4.0	24	4.8	17	21	0.15	1.5	0.61	5.0	30	11	14365	137	1.3	17	3.8	0.2	1.1	1483	0.25	352	1.0	88
4151	619824	5156569	7.0	21	5.2	19	21	0.12	3.1	0.89	13.2	46	18	35817	555	2.7	24	11.3	0.2	1.2	1762	0.57	384	1.5	144
4152	618601	5156989	13.0	30	5.4	19	22	0.12	4.2	1.22	6.6	33	21	19733	301	1.6	21	33.1	0.9	1.4	4075	1.18	355	1.2	114
4153	617442	5157152	14.0	34	5.6	18	22	0.11	4.9	1.38	8.4	42	25	24107	381	2.1	26	34.6	0.8	1.0	5099	1.12	374	1.3	131
4154	617093	5156186	1.0	61	5.2	18	21	0.16	1.3	0.53	1.2	10	17	3697	56	0.6	8	9.7	1.4	1.5	3285	0.25	37	3.2	29
4155	617066	5156440	10.0	NS	4.8	14	21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4156	615655	5157787	1.0	NS	4.8	15	20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4157	615035	5157693	2.0	18	5.0	19	21	0.10	1.6	0.42	3.7	18	9	10289	129	0.7	13	8.2	0.4	1.0	1375	0.52	544	0.8	52
4158	618070	5158056	2.0	59	5.0	15	21	0.10	1.7	0.76	6.8	22	19	14392	75	1.5	16	3.5	0.2	0.2	4336	0.25	138	1.4	84
4159	619919	5158490	1.0	NS	4.6	17	21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4160	621608	5161738	1.0	43	4.3	17	21	0.08	1.2	0.33	1.6	7	12	1401	28	0.7	9	2.6	0.2	0.2	2392	0.25	62	0.8	19
4161	621242	5162001	8.0	48	4.8	18	21	0.17	1.0	0.41	1.7	19	16	3187	56	0.9	10	3.0	0.2	0.2	2963	0.25	92	0.7	27
4162	621830	5163272	1.0	47	4.3	16	21	0.08	1.4	0.50	1.9	15	12	3019	54	0.6	9	6.5	0.2	0.2	2721	0.25	189	0.8	26
4163	621261	5163167	1.0	54	4.3	15	21	0.08	0.8	0.43	1.9	12	14	2686	44	0.6	9	4.1	0.3	1.2	2876	0.25	124	0.8	22
4164	620295	5162501	7.0	35	4.7	17	21	0.10	2.9	0.92	4.2	27	16	9485	119	0.7	17	17.3	0.2	1.0	2716	0.80	194	1.0	63
4165	618415	5164086	5.0	57	4.4	14	21	0.06	1.2	0.78	1.6	17	19	4821	50	1.5	13	2.4	0.2	0.2	3780	0.25	88	1.6	60
4166	617593	5163795	2.0	25	4.3	17	21	0.07	1.1	0.21	2.1	20	9	3383	56	0.3	11	2.3	0.2	0.2	1314	0.25	249	0.7	27
4167	617363	5164222	3.0	38	4.2	16	21	0.08	1.7	0.57	2.8	19	17	3589	57	0.8	16	9.0	0.5	1.2	2820	0.25	144	1.2	41
4168	616109	5165102	5.0	45	4.4	16	22	0.07	1.3	0.63	4.8	33	21	6601	108	0.6	20	4.5	0.5	1.1	2721	0.25	195	0.9	52
4169	602551	5182261	1.0	NS	6.4	37	20	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4170	601974	5180852	10.0	27	6.3	37	21	0.09	1.0	0.62	13.3	54	20	20196	362	0.6	34	6.3	0.7	0.9	2065	0.25	274	1.6	114
4171	600884	5179469	10.0	37	6.3	37	21	0.12	2.3	0.91	16.4	60	28	23896	445	0.8	40	9.3	0.7	1.7	3043	0.25	254	2.2	138
4172	603151	5178373	1.0	NS	4.9	17	19	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4173	609349	5174965	4.0	37	5.2	26	20	0.08	0.7	0.87	8.4	42	20	9860	225	0.5	24	3.7	0.2	0.2	2412	0.25	227	1.4	116
4174	611803	5172278	3.0	14	5.3	22	20	0.07	0.3	0.22	7.6	46	10	12630	179	0.3	26	4.0	0.6	0.9	754	0.25	507	0.7	60
4175	611292	5170302	3.0	23	5.3	23	20	0.08	1.8	0.62	14.8	67	21	21570	315	0.9	46	5.6	0.6	1.5	1654	0.25	495	1.1	146
4176	612472	5170161	1.0	51	4.7	19	20	0.10	1.6	0.34	2.7	17	14	4130	110	0.4	14	9.5	0.2	0.2	2220	0.25	146	1.5	25
4177	613087	5171599	1.0	28	4.7	20	19	0.09	1.7	0.87	9.3	45	22	10083	172	1.0	31	13.0	0.8	0.7	2847	0.25	174	1.5	67
4178	611190	5167695	9.0	53	4.5	17	20	0.11	0.8	0.41	2.2	17	23	4355	73	0.8	12	2.7	0.2	0.2	3706	0.25	44	0.6	29
4179	614024	5166882	5.0	86	3.5	24	19	0.12	1.4	0.79	2.5	12	31	3852	80	1.7	10	2.0	0.2	0.2	4569	0.25	54	0.7	30

Site	Easting	Northing	Lake	LOI	pH	Cond	Temp	Ag	As	Cd	Co	Cr	Cu	Fe	Mn	Mo	Ni	Pb	Pd	Pt	S	Sn	Ti	U	Zn
Number	Method --------->		Depth	Grav	YSI	YSI	YSI	ICP-MS	INAA	ICP-MS	ICP-MS	ICP-OES	ICP-OES	ICP-OES	ICP-OES	ICP-MS	ICP-OES	ICP-MS	FA/ICPMS	FA/ICPMS	ICP-OES	ICP-MS	ICP-OES	ICP-MS	ICP-OES
	Detection Limit ------>			0.1	0.01	1	0.01	0.02	0.5	0.050	0.05	4	5	5	1	0.10	5	0.05	0.3	0.3	30	0.50	3	0.05	2
	Units ------------->		m	%		µS/cm	°C	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm
	(NAD 83 Zone 17)																								
4180	614308	5164284	3.0	37	3.7	20	20	0.08	0.9	0.50	7.9	44	20	8253	119	0.5	28	3.8	0.2	0.2	2542	0.25	216	1.0	83
4181	615065	5164267	4.0	20	4.2	18	22	0.06	0.3	0.59	12.0	36	12	22176	179	1.0	25	4.9	0.2	0.9	1803	0.25	297	0.7	103
4182	615555	5162102	6.0	40	4.6	19	21	0.09	1.0	0.86	6.8	39	18	12392	139	0.9	19	3.8	0.3	1.1	2233	0.25	280	1.4	99
4183	615307	5161563	12.0	59	4.6	13	21	0.14	1.4	0.78	1.8	12	37	9004	91	1.3	10	2.7	0.8	1.1	4850	0.25	66	0.8	56
4184	617087	5160733	6.0	36	4.3	16	19	0.08	1.3	0.29	1.4	25	21	3861	38	0.2	13	6.1	0.3	0.4	1833	0.25	148	2.5	16
4185	618686	5160309	2.0	37	4.0	18	20	0.06	1.3	0.56	1.7	16	11	5688	32	0.8	12	3.1	0.2	0.2	1911	0.25	97	1.1	22
4186	619599	5160539	1.0	38	4.6	17	19	0.06	0.3	0.40	0.8	12	12	5524	48	1.0	6	3.1	0.2	0.2	2376	0.25	87	1.3	17
4187	621357	5158873	1.0	33	4.0	22	18	0.15	1.0	0.40	2.2	57	148	4082	67	0.3	15	5.9	2.8	2.4	2570	0.25	110	10.8	23
4188	620828	5158832	2.0	NS	3.4	23	18	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4189	617218	5158815	1.0	47	4.2	19	19	0.06	0.9	0.48	1.9	14	11	2913	28	2.0	13	2.7	INF	INF	3149	0.25	102	1.6	15
4190	615913	5159341	6.0	46	4.2	18	20	0.08	1.2	0.50	2.0	14	14	7500	98	1.3	12	5.3	0.2	0.2	3162	0.25	170	1.0	39
4191	615576	5159957	5.0	51	4.4	12	21	0.08	1.3	0.75	9.4	25	31	13098	129	1.3	22	5.3	0.2	0.2	3610	0.25	195	0.9	90
4192	617404	5153756	1.0	58	3.7	16	19	0.18	1.3	0.55	2.4	27	15	4769	138	0.6	7	5.8	0.2	0.2	2796	0.25	35	4.1	11
4193	617826	5154017	1.0	26	3.9	16	19	0.07	1.7	0.59	2.3	14	7	4679	71	0.7	10	9.6	0.4	1.3	2345	0.25	208	1.5	29
4194	619796	5153192	1.0	44	3.8	14	19	0.07	1.0	0.30	0.7	17	14	3141	23	0.3	7	2.8	0.2	0.2	2102	0.25	81	1.8	6
4195	620158	5153066	2.0	48	4.0	15	19	0.07	1.4	0.69	1.7	16	12	4337	41	1.2	10	7.8	0.5	1.5	3362	0.25	151	1.3	27
4196	621299	5153595	1.0	51	4.0	13	18	0.07	1.5	0.31	1.2	17	9	3412	57	0.6	9	5.1	INF	INF	2617	0.25	51	1.7	15
4197	621395	5153308	4.0	42	4.1	17	17	0.09	0.9	0.54	1.6	11	13	4303	56	0.8	8	3.7	0.2	0.2	2666	0.25	148	1.0	31
4198	620824	5151566	2.0	43	4.1	15	19	0.07	2.1	1.28	8.6	32	18	20620	105	1.9	21	5.8	0.2	0.2	3442	0.25	182	1.4	105
4199	623113	5151184	1.0	41	4.0	18	19	0.03	1.2	0.89	2.1	11	9	3737	85	1.0	9	6.5	0.2	0.2	3100	0.25	90	1.2	43
4200	623397	5152569	3.0	44	4.5	17	19	0.06	2.1	1.27	2.6	13	13	7507	74	1.0	11	13.8	0.4	1.2	3474	0.60	152	1.0	60
4201	624504	5154542	2.0	49	4.0	16	19	0.03	1.4	0.81	1.1	7	12	3676	63	2.8	7	6.0	0.2	0.2	3372	0.25	101	0.8	36
4202	626045	5153741	1.0	23	4.4	15	19	0.04	0.5	0.52	3.4	22	10	9257	183	13.3	11	4.4	0.2	1.3	2811	0.25	411	1.6	33
4203	628175	5153686	1.0	50	4.8	19	19	0.07	3.4	1.45	6.0	22	16	9594	129	3.1	22	11.7	0.2	0.2	4527	0.25	175	1.5	85
4204	630560	5152304	5.0	62	5.1	20	19	0.05	1.0	1.11	3.5	17	15	6576	106	2.0	18	5.4	0.2	0.2	4947	0.25	134	2.8	83
4205	628369	5151091	3.0	45	4.9	21	20	0.05	0.3	0.81	1.6	14	12	2731	38	3.5	10	4.2	0.2	0.2	3905	0.25	93	2.0	45
4206	617144	5151787	1.0	13	4.1	14	18	0.03	0.3	0.13	3.0	15	2.5	7133	76	0.5	8	3.2	0.2	0.2	619	0.25	422	0.6	27
4207	617408	5151916	1.0	20	4.0	16	18	0.07	0.3	0.17	3.4	18	2.5	7779	90	0.5	9	4.1	0.2	1.1	919	0.25	496	0.7	32
4208	613918	5159876	1.0	NS	4.0	14	19	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4209	614284	5161464	10.0	65	4.5	16	20	0.02	1.2	0.58	1.8	10	14	6998	132	1.1	13	5.2	0.2	0.2	3971	0.25	69	0.5	57
4210	614790	5161766	13.0	71	4.4	11	20	0.04	0.8	0.66	5.8	20	24	12643	231	0.9	16	2.8	0.2	0.2	6681	0.25	52	0.6	87
4211	614388	5162693	13.0	44	4.6	20	21	0.10	2.5	0.67	5.2	28	18	14789	133	1.1	17	17.0	0.5	0.5	3744	0.82	183	1.0	64
4212	612664	5163321	3.0	29	4.4	18	21	0.03	1.7	0.54	6.7	39	15	12976	99	1.2	25	2.2	0.4	1.3	2029	0.25	198	1.1	94
4213	611863	5161679	14.0	45	4.8	19	21	0.09	3.9	0.76	6.5	32	19	12454	256	1.6	18	25.8	0.2	0.2	3393	0.87	186	1.0	65
4214	610262	5162617	3.0	16	4.8	19	21	0.03	0.3	0.60	9.6	31	11	12946	185	1.6	19	1.9	0.2	0.2	1210	0.25	245	1.0	99
4215	609979	5162773	1.0	37	4.8	19	21	0.01	1.2	1.73	7.4	35	18	15491	156	1.8	28	3.5	0.2	0.2	2322	0.25	227	1.4	148
4216	609675	5163382	4.0	58	5.1	19	21	0.09	2.8	0.87	7.0	27	26	19321	128	3.1	20	4.1	0.5	0.5	5433	0.25	102	2.1	116
4217	610352	5164390	2.0	51	5.2	19	21	0.11	1.9	0.80	4.9	29	25	7027	105	1.0	23	4.0	0.2	0.2	3213	0.25	140	2.0	64
4218	607559	5164025	39.0	33	5.5	22	21	0.18	11.0	1.86	41.0	51	30	37392	1816	2.0	40	59.1	1.1	0.9	5650	1.94	359	1.4	153
4219	607970	5165698	8.0	28	5.4	21	21	0.12	1.5	0.77	18.0	54	19	25750	925	1.7	30	6.2	0.2	1.7	1669	0.25	319	1.5	114
4220	607659	5166389	1.0	33	4.1	20	19	0.10	0.7	0.39	3.2	29	11	5635	72	0.6	14	3.7	0.5	1.6	1541	0.25	243	1.6	27
4221	606748	5166792	9.0	49	4.5	17	22	0.11	2.8	0.94	6.0	34	26	11252	201	1.2	20	8.7	0.2	0.2	4145	0.25	133	2.0	115
4222	608606	5167248	5.0	25	4.7	18	21	0.08	1.3	0.57	8.2	48	20	13276	242	0.9	29	4.7	0.5	1.7	2496	0.25	336	1.2	106
4223	609336	5168061	6.0	26	5.0	19	21	0.09	2.1	0.66	10.1	50	20	15517	321	1.0	30	5.2	0.2	0.2	2387	0.25	295	1.2	109
4224	609277	5169469	12.0	39	5.1	21	21	0.13	3.7	0.85	11.0	47	22	14415	228	0.8	26	20.1	0.2	0.2	2531	0.61	275	1.0	78
4225	608226	5169945	2.0	43	5.2	22	20	0.11	2.6	1.30	11.1	34	21	9615	288	0.9	24	18.5	0.7	1.4	3155	0.59	292	1.4	85
4226	607688	5169277	4.0	NS	5.2	23	21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4227	608019	5171360	5.0	50	5.5	24	21	0.10	1.3	0.78	3.3	25	21	5321	80	0.7	16	3.8	0.2	0.2	6251	0.25	114	1.6	60
4228	607288	5171425	13.0	64	4.1	20	21	0.12	1.8	0.91	2.9	13	49	10343	108	1.8	16	2.1	0.2	0.2	9698	0.25	79	0.7	100
4229	608051	5172332	3.0	46	4.8	24	20	0.08	1.2	1.08	4.4	24	18	4282	61	0.7	18	6.8	0.2	0.2	6626	0.25	123	1.5	67
4230	608839	5173128	3.0	41	5.0	25	20	0.09	1.0	0.78	3.1	27	16	4282	75	1.0	14	4.9	0.2	0.2	4189	0.25	199	1.4	53
4231	609356	5173653	1.0	51	5.0	24	20	0.07	1.3	1.11	3.8	19	19	3526	69	0.9	20	10.8	0.2	0.2	5532	0.52	125	1.8	62
4232	607987	5173733	3.0	51	5.2	27	20	0.11	0.9	0.97	2.6	14	22	4674	71	0.8	14	4.2	0.2	0.2	5114	0.25	70	1.5	71
4233	607746	5174879	14.0	40	5.7	33	21	0.10	1.8	0.71	10.0	45	28	13885	507	1.0	24	10.0	0.2	0.6	4553	0.25	187	2.8	91
4234	605851	5175652	12.0	56	5.7	25	21	0.11	2.2	0.77	11.7	48	33	10307	464	1.1	28	6.8	0.6	0.6	4331	0.25	223	1.7	94
4235	604825	5174690	5.0	46	5.6	31	21	0.11	2.0	0.98	7.2	41	25	8593	191	0.7	24	9.1	0.7	1.5	4830	0.25	183	2.1	78
4236	606006	5174021	5.0	65	4.3	20	20	0.14	1.0	0.99	5.6	14	43	14396	40	1.6	18	2.3	0.2	0.2	20397	0.25	57	1.9	119
4237	605841	5173523	9.0	75	4.2	23	20	0.11	2.1	0.85	2.8	16	28	5315	94	1.3	13	3.9	0.2	0.2	5463	0.25	57	0.9	86
4238	605494	5171105	3.0	41	4.0	13	20	0.10	1.9	0.71	4.5	16	19	5983	44	0.6	18	11.2	0.8	1.2	12097	0.25	113	1.4	54
4239	606129	5168448	8.0	28	5.1	23	21	0.10	1.5	0.73	15.7	56	19	20004	471	0.7	31	7.4	0.2	0.9	1937	0.25	341	1.3	97
4240	598628	5180477	11.0	44	5.7	36	21	0.15	2.6	0.99	14.5	66	29	22309	524	0.9	36	8.5	0.2	0.2	3107	0.25	285	2.4	128
4241	599530	5181446	5.0	28	6.0	36	21	0.11	2.2	0.68	22.6	65	22	20778	510	0.8	46	7.2	1.0	1.7	2578	0.25	372	2.4	120
4242	598327	5181891	7.0	31	5.6	24	21	0.09	1.7	0.49	11.9	63	26	14786	247	0.8	38	6.5	0.7	0.9	2404	0.25	369	2.2	74
4243	597726	5180673	NM	87	5.8	35	21	0.07	1.1	0.70	2.3	9	16	3595	176	0.6	13	6.3	0.2	0.2	4351	0.25	70	1.9	19
4244	597244	5178920	2.0	56	6.0	36	21	0.07	1.8	0.45	4.6	18	21	3016	89	1.0	20	3.7	0.7	0.2	5132	0.25	73	2.0	35
4245	595181	5178320	2.0	46	5.5	28	20	0.08	1.2	0.66	5.6	23	23	3261	68	0.7	23	5.2	0.9	1.3	3170	0.25	98	1.0	53
4246	594159	5178547	11.0	69	3.7	25	20	0.12	0.7	0.72	2.5	11	34	3025	68	1.0	14	1.7	1.2	1.6	4820	0.25	58	0.8	54
4247	594573	5179628	1.0	63	5.0	27	20	0.09	1.6	0.61	6.0	26	34	2628	28	1.1	32	4.8	INF	INF	5302	0.25	113	1.9	47
4248	595245	5179991	2.0	55	5.6	42	20	0.08	2.1	0.75	7.9	34	29	7129	113	1.0	33	4.1	0.2	0.2	4589	0.25	152	1.3	76
4249	595056	5183124	NM	NS	6.3	52	21	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4250	595668	5184194	13.0	29	6.4	52	21	0.12	3.4	0.69	18.5	57	21	39974	1058	0.8	31	9.1	0.7	0.9	155[illegible]	0.25	301	2.3	123
4251	596463	5184661	9.0	47	6.3	57	20	0.11	1.7	0.92	6.9	34	24	8717	234	0.6	21	5.6	0.6	1.3	3339	0.25	141	2.6	79
4252	597823	5183680	4.0	59	6.1	29	21	0.10	1.4	0.65	6.3	35	27	8448	162	1.2	26	4.6	0.2	0.2	3899	0.25	157	1.5	65
4253	598592	5185053	7.0	40	5.9	27	21	0.13	2.1	0.91	19.7	58	26	23863	787	1.2	34	7.3	0.9	1.6	2747	0.25	255	3.3	133
4254	598144	5185305	2.0	72	NM	NM	NM	0.06	1.1	0.56	4.7	18	23	1922	36	1.1	30	2.6	0.2	0.2	4236	0.25	90	2.5	44

Metric Conversion Table

Conversion from SI to Imperial			Conversion from Imperial to SI		
SI Unit	*Multiplied by*	*Gives*	*Imperial Unit*	*Multiplied by*	*Gives*
			LENGTH		
1 mm	0.039 37	inches	1 inch	**25.4**	mm
1 cm	0.393 70	inches	1 inch	**2.54**	cm
1 m	3.280 84	feet	1 foot	**0.304 8**	m
1 m	0.049 709	chains	1 chain	20.116 8	m
1 km	0.621 371	miles (statute)	1 mile (statute)	**1.609 344**	km
			AREA		
1 cm^2	0.155 0	square inches	1 square inch	**6.451 6**	cm^2
1 m^2	10.763 9	square feet	1 square foot	**0.092 903 04**	m^2
1 km^2	0.386 10	square miles	1 square mile	2.589 988	km^2
1 ha	2.471 054	acres	1 acre	0.404 685 6	ha
			VOLUME		
1 cm^3	0.061 023	cubic inches	1 cubic inch	**16.387 064**	cm^3
1 m^3	35.314 7	cubic feet	1 cubic foot	0.028 316 85	m^3
1 m^3	1.307 951	cubic yards	1 cubic yard	0.764 554 86	m^3
			CAPACITY		
1 L	1.759 755	pints	1 pint	0.568 261	L
1 L	0.879 877	quarts	1 quart	1.136 522	L
1 L	0.219 969	gallons	1 gallon	**4.546 090**	L
			MASS		
1 g	0.035 273 962	ounces (avdp)	1 ounce (avdp)	28.349 523	g
1 g	0.032 150 747	ounces (troy)	1 ounce (troy)	**31.103 476 8**	g
1 kg	2.204 622 6	pounds (avdp)	1 pound (avdp)	**0.453 592 37**	kg
1 kg	0.001 102 3	tons (short)	1 ton (short)	**907.184 74**	kg
1 t	1.102 311 3	tons (short)	1 ton (short)	**0.907 184 74**	t
1 kg	0.000 984 21	tons (long)	1 ton (long)	**1016.046 908 8**	kg
1 t	0.984 206 5	tons (long)	1 ton (long)	**1.016 046 90**	t
			CONCENTRATION		
1 g/t	0.029 166 6	ounce (troy)/ ton (short)	1 ounce (troy)/ ton (short)	34.285 714 2	g/t
1 g/t	0.583 333 33	pennyweights/ ton (short)	1 pennyweight/ ton (short)	1.714 285 7	g/t

OTHER USEFUL CONVERSION FACTORS

	Multiplied by	
1 ounce (troy) per ton (short)	31.103 477	grams per ton (short)
1 gram per ton (short)	0.032 151	ounces (troy) per ton (short)
1 ounce (troy) per ton (short)	20.0	pennyweights per ton (short)
1 pennyweight per ton (short)	0.05	ounces (troy) per ton (short)

Note: Conversion factors which are in bold type are exact. The conversion factors have been taken from or have been derived from factors given in the Metric Practice Guide for the Canadian Mining and Metallurgical Industries, published by the Mining Association of Canada in co-operation with the Coal Association of Canada.

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OVERSIZE MAP
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